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Accurate early detection of internal short circuits (ISCs) is indispensable for safe and reliable application of lithium-ion batteries (LiBs). However, the major challenge is finding a reliable

A silicon anode with ultra-high specific capacity has motivated tremendous exploration for high-energy-density lithium ion batteries while it still faces serious issues of irreversible lithium...

Yinlong lithium-titanate-oxide batteries boast an expansive operating temperature range from -40°C to $+60^{\circ}\text{C}$. Excelling in both extreme cold and hot conditions, these batteries operate optimally without

To address this challenge, we report a method to predict future battery characteristics using deep learning. ISCs can be detected accurately and quickly by inconsistency of the evolution of

Ultra-early prediction of lithium-ion battery performance using mechanism and data-driven fusion model
Binghan Cui a, Han Wang a, Renlong Li a, Lizhi Xiang a, Huaian Zhao a, Rang Xiao

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A lithium-ion battery or Li-ion battery is a type of rechargeable battery that uses the reversible intercalation of
 Li^+ ions into electronically conducting solids to store

Li-ion-conducting chloride solid electrolytes receive considerable attention due to their physicochemical
characteristics such as high ionic conductivity, deformability and oxidative stability.

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Silicon (Si) has gained huge attention as an anode material for next-generation high-capacity lithium-ion



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batteries (LIBs). However, despite its overwhelming beneficial features, its large

Here, we develop an accurate and fast ISC detection method by combining electrochemical impedance spectroscopy (EIS) with a deep neural network (DNN).

High-temperature reduction mechanism of cathode materials for lithium-ion batteries by biomass reduction. Application of microwave heating in carbothermal reduction of cathode materials. The

Oxygen vacancies and spinel phase integration suppress irreversible O_2 release and help lithium ion diffusion, while N-doped carbon nanolayer mitigates the corrosion of electrolyte with

Silicon oxide (SiO_x), consisting of nanosized Si crystallites and oxide matrix (SiO_y , y near 2), is regarded as one of the most promising anode materials for next-generation high energy

In this work, a mechanism and data-driven fusion model is developed to predict charging capacity and energy curves over the full life cycle of batteries in the case of only knowing the planned cycling

Accurate early detection of internal short circuits (ISCs) is indispensable for safe and reliable application of lithium-ion batteries (LiBs). However, the major challenge is finding a reliable standard to judge

Lithium-ion hybrid supercapacitors (Li-HSCs) and dual-ion batteries (DIBs) are two types of energy storage devices that have attracted extensive research interest

The inhomogeneous nature of SiO_x anode material on the atomic scale directly affects its electrochemical performance. A large irreversible capacity loss at the first cycle severely hinders

In this work, we try to investigate the relationship of the surface chemistry modulating, lithium-ion diffusivity and the lithium-storage behaviors of SiO_x via a novel $AlCl_3$ - $MgSO_4$ assisted



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