Conductive film for lithium batteries

Herein, a binder-, conductive additive- and current collector-free Si/reduced graphene oxide film has been constructed via a simple thermal-reduction method. In the film, ...

Carbon black is an important additive that facilitates electronic conduction in ...

Here, we propose the synthesis and use of lithium titanium chloride (Li3TiCl6) as room-temperature ionic conductive (i.e., 1.04 mS cm-1 at 25 °C) and compressible active ...

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In this study, porous adhesive poly(ethylene vinyl acetate) (PEVA) scaffolds ...

Sulfide solid-state electrolyte (SSE) in all-solid-state lithium batteries (ASSLBs) has attracted increasing attention due to its outstanding safety and high energy density. ...

Currently, rechargeable lithium batteries are representative of high-energy-density battery systems. Nevertheless, the development of rechargeable lithium batteries is ...

Recently, several attempts have been reported in ASSLBs of thin sulfide SSE films. Nan"s et al. reported a sulfide/polymer composite electrolyte film prepared by liquid ...

High Ionic Conductive, Mechanical Robust Sulfide Solid Electrolyte Films and Interface Design for All-Solid-State Lithium Metal Batteries. Dabing Li, Dabing Li. Beijing ...

The CPEs were subsequently assembled in solid-state lithium-ion batteries, and the cell performance including cycle performance, discharge capacity, and rate capability ...

1 Introduction. Lithium-ion batteries (LIBs) have been extensively applied in portable electronics and renewable energy storage devices because of their high energy ...

Lithium-sulfur batteries are afflicted with capacity fading on account of polysulfide shuttling. A novel cost-effective electrode that can hinder the polysulfide shuttling and realize high active material utilization is highly ...

As the energy utilization is shifting to renewable and low carbon, the development of efficient energy storage devices is a great way to save energy [[1], [2], [3]].The lithium metal ...

Conductive film for lithium batteries

Flexible, Electrically Conductive, Nanostructured, Asymmetric Aerogel Films for Lithium-Sulfur Batteries. Lulu Bai, Junsheng Ma, Hongquan Song, Ya Yang, Chunyi Zhi, Sang Young Lee, ...

Download Citation | On Dec 6, 2021, Lulu Bai and others published Flexible, Electrically Conductive, Nanostructured, Asymmetric Aerogel Films for Lithium-Sulfur Batteries | Find, ...

Thick electrode technology has attracted much attention of the industry as an effective and practical way to achieve high energy density of batteries, since it just needs to ...

The results showed that the prepared PDOL/LAGP composite solid electrolyte film has high electrochemical performance and good interfacial compatibility with lithium ...

Lithium (Li) metal is considered as the ultimate anode material to replace graphite anode in high-energy-density rechargeable batteries 1,2,3.Paring with high areal ...

Carbon black is an important additive that facilitates electronic conduction in lithium-ion batteries and affects the conductive binder domain although it only occupies 5-8% ...

In this study, porous adhesive poly(ethylene vinyl acetate) (PEVA) scaffolds and polytetrafluoroethylene (PTFE) binders are utilized to interweave sulfide solid electrolytes into ...

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