

Multi-functional yolk-shell structured materials and their applications for high-performance lithium ion battery and lithium sulfur battery August 2022 Energy Storage ...

Because of its high theoretical energy density, the Li-S battery (LSB) is regarded as one of the most promising next-generation energy-storage devices. However, ...

It is highly desirable to develop advanced electrode structures of lithium-sulfur (Li-S), which enable high energy density, long life, low cost, and environmental benignity. In ...

Although lithium-sulfur (Li-S) batteries deliver high specific energy densities, lots of intrinsic and fatal obstacles still restrict their practical application. Electrospun carbon ...

The CGPE based lithium-sulfur battery displays remarkably high specific capacities (1459 and 942 mAh/g at 0.1 and 1C respectively) and outstanding cycling ...

Lithium-sulfur battery has been recognized as one of the most promising candidates for next-generation energy-storage devices due to sulfur's high theoretical specific ...

Request PDF | Multifunctional separators for high-performance lithium ion batteries | The separator is a critical component in lithium ion batteries that is not involved in ...

UNLABELLED We report a rational design of a sulfur heterocyclic quinone (dibenzo[b,i]thianthrene-5,7,12,14-tetraone=DTT) used as a cathode (uptake of four lithium ...

A multifunctional dual-salt localized high-concentration electrolyte for fast dynamic high-voltage lithium battery in wide temperature range Adv. Energy Mater., 11 (2021 ...

Here a binder-free, self-supporting multifunctional interlayer composed of lithium lanthanum titanate (LLTO) with amorphous carbon nanofiber matrices for Li-S batteries has ...

The realization of energy storage devices with high energy density and low cost is among the world's greatest scientific challenges. Lithium-ion batteries (LIBs) are considered ...

Web: <https://www.systemy-medyczne.pl>