

Request PDF | On Dec 1, 2024, Xi Du and others published The collaborative effect of Ni₃S₂-NiO heterojunction and porous carbon network modified lithium-sulfur battery separator for effectively ...

When the lamellar flower-like heterojunction is applied as separator modifier, ... Electrochemical testing of Li-S batteries assembled with different modified separators. (a) CV curves of the battery assembled with CoNi@ZnV₂O₄/ZnO-N,C-modified separator at scanning rates from 0.2 to 0.5 mV s⁻¹.

bonding states of the Ni and CoSe₂ heterojunction lead to an sustains a discharge capacity of 399.2 mA h g⁻¹ while the uneven distribution of space charge, which brings an electric ...

The material characterization, adsorption performance, and battery performance tests show that compared with the monometallic (Mo) modified separator, the heterostructured Mo₃P/Mo catalyst possesses a stronger interaction with Li₂S₆, which effectively restricts the shuttling effect of LiPSs, strengthens the electron transfer ability, improves the reaction ...

In this work, a modified LSB separator Ni-NiO@AC-4@PP is designed, which is anchored by Ni-NiO heterojunction on volcanic rock-like three-dimensional porous carbon network (AC) as the ...

Ni-NiS Heterojunction Composite-Coated Separator for High-Performance Lithium Sulfur Battery. October 2022; Coatings 12(10) ... make the battery still have stable cycle at high current density ...

Compared to homogeneous cobalt diselenide, it exhibits much stronger adsorption and catalytic conversion abilities towards polysulfides. With the modified separators, ...

After 60 cycles at 0.5 C, the modified separator retained the discharge capacity of 718 mAh g⁻¹ under a sulfur load of 2.58 mg cm⁻². In summary, the construction of a ...

DOI: 10.1016/j.jpowsour.2024.235414 Corpus ID: 272578140; The collaborative effect of Ni₃S₂-NiO heterojunction and porous carbon network modified lithium-sulfur battery separator for effectively inhibiting polysulfides shuttle

DOI: 10.1016/j.jallcom.2023.171605 Corpus ID: 260647914; Application of ZIF-67/ZIF-8 derived Co₃O₄/ZnO heterojunction in lithium-sulfur battery separators @article{Hao2023ApplicationOZ, title={Application of ZIF-67/ZIF-8 derived Co₃O₄/ZnO heterojunction in lithium-sulfur battery separators}, author={Qingyuan Hao and Xinye Qian and Lina Jin and Jian-Cong Cheng and ...

The battery assembled by Fe₇S₈-Fe₂O₃/NCF-coated separator has better performance through the

synergistic action between Fe₇S₈ and Fe₂O₃. Battery ...

Web: <https://vielec-electricite.fr>