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In this work, we report remarkable improvements on Zn reversibility in a non-concentrated aqueous zinc trifluoromethanesulfonate (Zn(OTF) 2) electrolyte by using 1,2-dimethoxyethane (DME) additive to reshape the electrolyte structure and Zn interface chemistry.The formulated recipe with 40 vol.% DME (denoted as DME40) features ...

Guanxiu Yuan: Conceptualization, Methodology, Software, Validation, Formal ... Methodology, Resources, Formal analysis. Bei Ye: Writing - review & editing, Formal analysis, Data curation, Visualization ... Firstly, electric energy storage and thermal energy storage are introduced into the integrated energy microgrid as short time scale energy ...

Energy Storage Materials. 2020, 570-576 (403) Zhangxiang Hao, Jie Chen, Lixia Yuan*, Qiming Bing, Jing yao Liu, Weilun Chen, Zhen Li, Feng Ryan Wang, Yunhui Huang*. Advanced Li2S/Si Full Battery Enabled by TiN Polysulfide Immobilizer.

My research in the broad field of soft matter, at the intersection of physics, chemistry and biology. More specifically, I try to understand colloidal interactions in liquid crystals and ...

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Rechargeable Zn batteries (RZBs) hold great practicability for cost-effective sustainable energy storage because of the merits of Zn including abundant natural supply of raw materials, cost efficiency, low toxicity, and high theoretical capacity (820 mAh g -1 and 5855 mAh cm -3) [1], [2], [3] addition, RZBs normally using aqueous electrolytes feature intrinsic ...

My research focuses on developing safe and low-cost energy storage system by combining experiments and theoretical computations. I am also designing and synthesizing advanced materials for novel novel batteries ...

202118. Chuannan Geng, Wuxing Hua, Dawei Wang, Guowei Ling, Chen Zhang, Quan-Hong Yang. Demystifying the catalysis in lithium-sulfur batteries: Characterization methods and techniques. SusMat. 2021; 1: 51- 65.17. Juan Zhao, Qi Li, Tongxin Shang ...

Energy Storage Mater., 2022, 45, 805-813. [2]. Liang Song, Feng-Qi Zhao, Si-Yu Xu, Xue-Hai Ju*, Cai-Chao Ye*. ... Yuan-Qing Mao, Hong-Liang Yang, Ye Sheng, Ji-Ping Wang, Runhai Ouyang, Cai-Chao Ye*, Jiong

Yang*, Wen-Qing Zhang. Prediction and Classification of Formation Energy for Binary Compounds by Machine Learning: An Approach Without ...

Ceria nanoparticles (NPs) have unique catalytic properties which make them suited to scavenge degrading radical species and their precursor peroxides during PEM fuel cell operation.

??,???,;5(), ...

With the growing demands for low-carbon emissions, renewable energy sources, such as solar and wind, have received tremendous attention. In this respect, low-cost and high-efficiency energy storage systems (ESSs) are urgently required, since renewable energy sources are usually intermittent [1, 2].Although lithium-ion batteries (LIBs) have achieved great success ...

Design and analysis of bearingless flywheel motor specially for flywheel energy storage. IET Electronics Letters Model-Free Adaptive Control for three degree-of-freedom ...

Material Manager · Experienced Inventory Analyst with a demonstrated history of working in the oil & energy industry. Skilled in SAP, VBA, Data Analysis, Inventory Management and Planning. Strong supply chain professional with a Master& #39;s Degree in Project Management from National University of Singapore.

J Hao, L Yuan, C Ye, D Chao, K Davey, Z Guo, SZ Qiao. Angewandte Chemie International Edition 60 (13), 7366-7375, 2021. 759: 2021: A high-rate and stable quasi-solid-state zinc-ion battery with novel 2D layered zinc orthovanadate array. ... Solution synthesis of metal oxides for electrochemical energy storage applications.

An Electrolytic Zn-MnO 2 Battery for High-Voltage and Scalable Energy Storage. D Chao, W Zhou, C Ye, Q Zhang, Y Chen, L Gu, K Davey, SZ Qiao. Angewandte ... Boosting zinc electrode reversibility in aqueous electrolytes by using low-cost antisolvents. J Hao, L Yuan, C Ye, D Chao, K Davey, Z Guo, SZ Qiao. Angewandte Chemie International ...

ORCID record for Ye Xiao. ORCID provides an identifier for individuals to use with their name as they engage in research, scholarship, and innovation activities.

Name:Ye Yuan Professional Title:Lecturer Research Interests:Flywheel energy storage; Bearingless motors and magnetic bearings;Fuel cell; Microgrid; Intelligent controlE-mail:1000050003@ujs .cn; 763874393@qq Research ...

New Energy Analyst -enthusiastic about lithium battery · Currently, I am engaged in analytical research in the lithium battery industry at SMM. My main focus is on the price and supply ...

Mesocrystallinely stabilized lithium storage in high-entropy oxides. Nano Energy. 2024, 124, 109482. Yifei Yuan *, Kun He * and Jun Lu*. Structure-Property Interplay Within Microporous Manganese Dioxide Tunnels For Sustainable Energy Storage.

Contributors: Quan Yuan; Yujian Ye; Yi Tang; Xuefei Liu; Qidong Tian Show more detail. Source: check_circle. Crossref grade . Preferred source (of 2)? Multi-Agent Deep Reinforcement Learning for Coordinated Energy Trading and Flexibility Services Provision in Local Electricity Markets ... Review activity for Journal of energy storage. (1 ...

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Zinc-ion batteries (ZIBs) have garnered significant attention in the field of energy storage and conversion due to their advantages, including high theoretical specific capacity (820 mAh/g) and low potential (-0.762 V vs. SHE, standard hydrogen electrode) [1], [2], [3], [4].However, zinc anodes [5] have been facing challenges like dendritic formation, hydrogen ...

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Ye Yuan, Yukun Sun, Yonghong Huang. Design and analysis of bearingless flywheel motor specially for flywheel energy storage[J]. IET Electronics Letters, 2016, 52(1): 66 ...

Ye Yuan. Tsinghua University. Verified email at mails.tsinghua .cn. ... Energy conversion and management 106, 520-529, 2015. 113: 2015: Mode-switching-based active control of a ...

New Energy Analyst -enthusiastic about lithium battery · Currently, I am engaged in analytical research in the lithium battery industry at SMM. My main focus is on the price and supply-demand dynamics of lithium carbonate, lithium hydroxide, lithium iron phosphate, power and energy storage cells, as well as separators. · Experience: Shanghai Metals Market · Education ...

Yang, Yuan Assistant Professor Columbia University , ... Department of Mechanical Engineering,MIT Awards & Honors 2017 Scialog Fellow on Advanced Energy Storage 2017 Research Initiatives ...

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Name:YUAN YeTitle:ProfessorResearch & Teaching field: Intelligent manufacturing of big data, Artificial intelligence and Automation, Application of Artificial Intelligence in Power System and Integrated Energy System [!--pagedes--] Chinese Home ...

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