

Author links open overlay panel Boheng Yuan a, Bin Zhao a, Qi Wang a, Yuge Bai a, Zhiwei Cheng a, Zhi Cong a, Yafei Lu a, Fangdi Ji a, Fei Shen a, Peng-Fei Wang a, Xiaogang Han a b. ... Boheng Yuan: Conceptualization, Methodology, Writing ... Towards greener and more sustainable batteries for electrical energy storage. *J. Nat. Chem.*, 7 (1 ...

Tri-anions regulated solvation structure in intrinsically nonflammable phosphate-based electrolytes for stable lithium metal batteries. Zhiwei Ni, Chuanliang Wei, +4 authors. ...

This work, which demonstrates extraordinary energy conversion efficiency and adequate energy storage, will pave the way towards the construction of thermoelectric setups with attractive properties ...

by the high energy barrier of adjacent octahedral sites, their Na⁺ diffusion kinetics is slow, resulting in poor rate capability. Additionally, most O₃-type materials are sensitive to moisture,

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The high-entropy films show greater stability of the polarization behaviours (Supplementary Fig. 8) and energy storage properties (Fig. 4d and Supplementary Fig. 9), compared to the $x = 0.0$...

Qingdao Industrial Energy Storage Research Institute, Qingdao Institute of Bioenergy and Bioprocess Technology, Chinese Academy of Sciences, Qingdao, 266101 P. R. China. Shandong Energy Institute, Qingdao, 266101 P. R. China. Qingdao New Energy Shandong Laboratory, Qingdao, 266101 P. R. China

DOI: 10.1016/J.PARTIC.2014.03.003 Corpus ID: 100015945; Thermal energy storage: Challenges and the role of particle technology ? @article{Ge2014ThermalES, title={Thermal energy storage: Challenges and the role of particle technology ?}, author={Zhiwei Ge and Yongliang Li and Dacheng Li and Ze Sun and Yi Jin and Chuanping Liu and Chuan Li and Guanghui Leng and ...

DOI: 10.2139/ssrn.4253028 Corpus ID: 253089914; Evidence of C-H Bond Activation Dominating in Both C₆H₁₂ Oxidation and Consequential C-C Bond Rupture @article{Yuan2023EvidenceOC, title={Evidence of C-H Bond Activation Dominating in Both C₆H₁₂ Oxidation and Consequential C-C Bond Rupture}, author={Jin Yuan and Zhiwei He and Hongbo Zhang}, journal={SSRN ...

TL;DR: In this article, a review of thermal energy storage materials and working procedure is presented to investigate significant research contributions focusing on, and linking both practical applications and scientific aspects of the problem, and their design, characterization, optimization considerations, and integration

challenges have been addressed in a multi-scale manner from ...

Energy Storage Materials 2022, 45, 828-839 . 2021. 70. Lanxiang Feng, Zhiwei Zhu, Yan He, Yu an Ji, Xuewei He, Lei Jing, Mingbo Yang, Wei Yang and Yu Wang* Superfast and solvent-free core-shell assembly of sulfur/carbon active particles by hail-inspired nanostorm technology for high-energy-density Li-S batteries. Journal of Energy Chemistry ...

Yuan Ji received his bachelor's degree at College of Polymer Science and Engineering, Sichuan University in 2019. He is currently a master candidate at Sichuan University under the supervision of Professor Yu Wang. ... Zhiwei Zhu received his bachelor's degree at Changzhou University in 2020. He is pursuing the PhD degree at Sichuan University ...

Researchers pursue mass production of thin solid electrolytes with high room-temperature (RT) conductivity for solid state batteries with high energy and safety. A novel solid-state composite ...

Herein, we regulated solvation structures in triethyl phosphate (TEP) through a simple Tri-anions strategy to achieve cycling stability and safety of LMB. Molecular dynamic simulation ...

The integrated energy system plays an important role in the energy conservation, emission reduction and the resource-efficient utilization. Accurate load forecasting is a significant basis for the optimal scheduling of the integrated energy system. The integrated energy system has coupling interaction between different energy sources in production, ...

Her research interests focus on functional polymeric nanocomposites for energy storage including solid-state batteries and nextgeneration lithium batteries. Yu Wang is a professor at College of ...

The biotic recovery following the Permian/Triassic boundary mass extinction was influenced by several secondary extinctions during the Early Triassic, of which the late Smithian crisis is the most ...

Electrostatic capacitors have been extensively implemented in pulsed power systems and advanced electronics, in which polymer dielectric films play a vital role due to their light weight, high reliability, low cost, great flexibility and superior energy storage performance, including high voltage endurance and low dielectric loss [[1], [2], [3], [4]].

@article{Tang2010StudyOP, title={Study on performance of colloidal mixtures consisted of stearic acid and Na₂HPO₄·12H₂O for use as phase change materials of thermal energy storage}, author={Zhiwei Tang and Aijie Liu and Zhifeng Chen}, journal={Energy Conversion and Management}, year={2010}, volume={51}, pages={1459-1463}, url={https://api ...

Zishun Yuan; Zhiwei Tie ... 12, 13 Historically, manganese-based material has been adopted for energy storage since a century ago as a primary cell, followed by unlocking its rechargeability in ...

[130] Zhuchen Yuan, Yue Pan, Huaibin Wang, Shuyu Wang, Yong Peng, Changyong Jin, Chengshan Xu, Xuning Feng, Kai Shen, Yuejiu Zheng, Zhendong Zhang, Minggao Ouyang, Fault data generation of lithium ion batteries based on digital twin: A case for internal short circuit, *Journal of Energy Storage*, Volume 64, 2023, 107113, ISSN 2352-152X,

DOI: 10.1016/J.JPOWSOUR.2014.10.173 Corpus ID: 16563779; Self-healing Li-Bi liquid metal battery for grid-scale energy storage @article{Ning2015SelfhealingLL, title={Self-healing Li-Bi liquid metal battery for grid-scale energy storage}, author={Xiaohui Ning and Satyajit R. Phadke and Brice Chung and Huayi Yin and Paul Burke and Donald R. Sadoway}, journal={Journal of ...

Xiaoqing Zhu is currently a Associate Professor at North China Electric Power University. He was once a Joint Ph.D. student of The University of Tennessee and Oak Ridge National Laboratory. His ...

Chen Yuan; Xi Chen [...] Zhiwei Wang; As the fast growth and large integration of distributed generation, renewable energy resource, energy storage system, and load response, the modern power ...

[35] Guohui Qin, Yihui Liu, Fusheng Liu, Xuan Sun, Linrui Hou, Bingbing Liu, Changzhou Yuan*,., Magnetic field assisted construction of hollow red P nanospheres confined in hierarchical N-doped carbon nanosheets/nanotubes 3D framework for efficient potassium storage, *Adv. Energy Mater.* 2020, DOI: 10.1002/aenm.202003429. (IF =25.245)

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The corresponding energy and power densities at 0.5-20 C are listed in Supplementary Table 7, indicating that the AKIB outputs an energy density of 80 Wh kg⁻¹ at a power density of 41 W kg ...

Layered transition metal oxide P2-Na^{2/3} Ni^{1/3} Mn^{2/3} O₂ usually suffers from large-volume phase transitions and different Na-vacancy ordering during sodium (de)intercalation, incurring rapid capacity decline and poor rate capability. Herein, an effective strategy based on synergetic effect of selected multiple metal ions is designed for P2-type cathodes with ...

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