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Potassium-based electrochemical energy storage devices: Development status and future prospect. Jie Xu, Shuming Dou, Xiaoya Cui, Weidi Liu, ... Yanan Chen. Pages 85-106 View PDF. Article preview. select article Encapsulation methods of sulfur particles for ...

In the context of global decarbonisation, retrofitting existing coal-fired power plants (CFPPs) is an essential pathway to achieving sustainable transition of power systems. This paper explores the potential of using electric heaters and thermal energy storage based on molten salt heat transfer fluids to retrofit CFPPs for grid-side energy storage systems (ESSs), along with an ...

In recent years, Prussian blue analogue (PBA) materials have been widely explored and investigated in energy storage/conversion fields. Herein, the structure/property correlations of PBA materials as host frameworks for various charge-carrier ions (e.g., Na +, K +, Zn 2+, Mg 2+, Ca 2+, and Al 3+) is reviewed, and the optimization strategies to achieve ...

Corrigendum to "A SAXS outlook on disordered carbonaceous materials for electrochemical energy storage" [Energy Storage Mater. 21 (2019) 162-173] Damien Saurel, Julie Ségalini, María Jáuregui, Afshin Pendashteh, ... Montse Casas-Cabanas. ...

Corrigendum to "Aqueous alkaline-acid hybrid electrolyte for zinc-bromine battery with 3V voltage window" [Energy Storage Materials Volume 19, May 2019, Pages 56-61] Feng Yu, Le Pang, Xiaoxiang Wang, Eric R. Waclawik, ... Hongxia Wang. Page 228 View PDF; Previous vol/issue.

A high-voltage and ultralong-life sodium full cell for stationary energy storage. S Guo, P Liu, Y Sun, K Zhu, J Yi, M Chen, M Ishida, H Zhou. Angewandte Chemie 127 (40), 11867-11871, 2015. 147: 2015: Tailoring the stability and kinetics of Zn anodes through trace organic polymer additives in dilute aqueous electrolyte.

A bi-functional WO 3-based anode enables both energy storage and conversion in an intermediate-temperature fuel cell. Dai Dang, Bote Zhao, Dongchang Chen, Ben M. deGlee, ... Meilin Liu. Pages 79-84 View PDF. Article preview. select article Molecular insights into ether-based electrolytes for Li-FeS₂ batteries.

Molecular extension engineering constructing long-chain organic elastomeric interphase towards stable potassium storage[J]. Energy Lab, 2023, 1(2): 220014. doi: 10.54227/elab.20220014. Jun Peng, Xianhui Yi, Ling Fan, Jiang Zhou, Bingan Lu. Molecular extension engineering constructing long-chain organic elastomeric interphase towards stable ...

Nanomaterials provide many desirable properties for electrochemical energy storage devices due to their

nanoscale size effect, which could be significantly different from bulk or micron-sized materials. Particularly, confined dimensions play important roles in determining the properties of nanomaterials, such as the kinetics of ion diffusion, the magnitude of ...

Dual-doped carbon hollow nanospheres achieve boosted pseudocapacitive energy storage for aqueous zinc ion hybrid capacitors. Jie Li, Jihua Zhang, Lai Yu, Jingyu Gao, ... Genqiang Zhang. Pages 705-714 View PDF. Article preview. select article High-voltage K/Zn dual-ion battery with 100,000-cycles life using zero-strain ZnHCF cathode.

Remarkable energy storage performances of tungsten bronze Sr 0.53 Ba 0.47 Nb 2 O 6-based lead-free relaxor ferroelectric for high-temperature capacitors application. Bian Yang, Yangfei Gao, Xiaojie Lou, Yaodong Yang, ... Shaodong Sun. Pages 763-772 View PDF. Article preview.

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The development of next-generation lithium-based rechargeable batteries with high energy density, low cost, and improved safety is a great challenge with profound technological significance for portable electronics, electric vehicles, and grid-scale energy storage. Specifically, advanced lithium bat ...

Institute of High Energy Physics, Chinese Academy of Sciences, University of Chinese Academy of Sciences, Beijing, 100049 China. Search for more papers by this author. ... These metrics are superior to most reported MOF-based supercapacitors, demonstrating promising applications in energy-storage devices.

Constructing bidirectional-matched interface between polymer and 2D nanosheets for enhancing energy storage performance of the composites. Jialong Li, Xiaoxu Liu, Yu Feng, Dongyang Chen, ... Jinghua Yin. Pages 605-614 View PDF. Article preview.

Large energy is required for traditional CO 2 fixation, leading to more CO 2 emission and additional pollutants. Recently, integrating renewable energy with CO 2 fixation has attracted increasing attention as a sustainable strategy. Here, based on a systematic investigation on aprotic Li-CO 2 electrochemistry, we first provide an alternative strategy for either CO 2 ...

Li-CO2 electrochemistry: a new strategy for CO2 fixation and energy storage. Y Qiao, J Yi, S Wu, Y Liu, S Yang, P He, H Zhou. Joule 1 (2), 359-370, 2017. 388: ... Energy & Environmental Science 11 (2), 299-305, 2018. 152: 2018: The potential of electrolyte filled MOF membranes as ionic sieves in rechargeable batteries.

Stationary energy storage technology is considered as a key technology for future society, especially to support the ecological transition toward renewable energies. 1 Among the available technologies (e.g., rechargeable batteries, fly wheels, and compressed air energy storage), rechargeable batteries are the most

promising candidates for stationary energy ...

Recently, the attention to sodium-ion batteries has been refocused on large-scale energy storage applications, due to sodium"s low cost and infinite abundance. Sodium is one of the most abundant elements on earth and exhibits chemical properties similar to lithium. Owing to their superior sodium storage capa

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