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Different from a typical ferroelectric whose electric polarization is easily saturated, these Ba(Zr0.2,Ti0.8)O3 films display a much delayed saturation of the electric polarization, leading to drastically improved recyclable energy densities and may enable broader applications of dielectric capacitors in energy storage, conditioning, and ...

The rational design and scalable assembly of nanoarchitectures are important to deliver highly uniform, functional films with high performance. However, fabrication of large-area and high-performance films is quite difficult because of the challenges in controlling homogeneous microstructures, interface properties, and the high cost of the conventional vacuum deposition ...

Although extensive studies have been done on lead-free dielectric ceramics to achieve excellent dielectric behaviors and good energy storage performance, the major problem of low energy density has not been solved so far. Here, we report on designing the crossover relaxor ferroelectrics (CRFE), a crossover region between the normal ferroelectrics and relaxor ...

DOI: 10.1016/j.mtener.2021.100924 Corpus ID: 245096078; Structural Composite Energy Storage Devices-a Review @article{Zhou2021StructuralCE, title={Structural Composite Energy Storage Devices-a Review}, author={Hanmo Zhou and Hao Li and Liuqing Li and Tiancheng Liu and Gao Chen and Yanping Zhu and Limin Zhou and Haitao Huang}, journal={Materials Today Energy}, ...

2024 [18] Peng Zheng, Wang Zhou, Ying Mo, Biao Zheng, Miaomiao Han, Qin Zhong, Wenwen Yang, Peng Gao*, Lezhi Yang*, Jilei Liu *, Multi boron-doping effects in hard carbon toward enhanced sodium ion storage, Journal of Energy Chemistry, 2025, 100, 730 - 738. [17] Jinlong Ke, Shi Chen, Peitao Xiao, Yufang Chen, Rui Tang, Peng Gao*, Aiping Hu*, Jilei Liu *, ...

Speaking of the capacity of energy storage, LPBs (taking 18650 cell as example) have gone through a long process of evolution. In 1991, Sony Corporation released the first-generation commercial LIB whose energy density reached 80 Wh kg -1 (200 Wh L -1) and charging voltage is approximately 3.7 V.

Antiferroelectric materials are promising to be used for power capacitive devices. To improve the energy storage performance, solid-solution and defect engineering are widely used to suppress the long-range order by introducing local heterogeneities. However, both methods generally deteriorate either the maximum polarization or breakdown electric field due to damaged ...

Functionalized multiwalled carbon nanotubes (CNTs) are coated with a 4-5 nm thin layer of V2O5 by controlled hydrolysis of vanadium alkoxide. The resulting V2O5/CNT composite has been investigated for electrochemical activity with lithium ion, and the capacity value shows both faradaic and capacitive

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(nonfaradaic) contributions. At high rate (1 C), the ...

Zhou Ying, whose real name is Zhou Ling, was born in 1869 in Sanyuan, Shaanxi. Her great-grandfather, Zhou Meicun, started as a kiln industry in Jiangxi and was a wealthy merchant, but a war caused the family to decline. Zhou Ying became an orphan when she was a teenager and had to rely on her brother and sister-in-law to live.

Synthetic Methodologies and Energy Storage/Conversion Applications of Porous Carbon Nanosheets: A Systematic Review. Energy & Fuels 2022, 36 (7 ... Qing Liu, Lanyan Zhu, Yi Zhou, Ying Lu, Shixing Wang, Yunxuan Zhou, Zhao Ding, Yang Zhou. Integrated data mining for prediction of specific capacitance of porous carbon materials for flexible energy ...

Abstract. The oxygen evolution reaction (OER) is the cornerstone for many important energy conversion devices, including metal-air battery and water splitting. Herein, ...

Barium titanate-based energy-storage dielectric ceramics have attracted great attention due to their environmental friendliness and outstanding ferroelectric properties. Here, we demonstrate that a recoverable energy density of 2.51 J cm-3 and a giant energy efficiency of 86.89% can be simultaneously achieved in 0.92BaTiO3-0.08K0.73Bi0.09NbO3 ceramics. In ...

Li-metal is an attractive anode material for next-generation batteries owing to its high capacity and low reduction potential. Unfortunately, it undergoes dendritic growth, which limits its development. Herein, amorphous polymeric carbon-based semiconducting passivation layers are applied to Li-metal electrodes using radiofrequency plasma thermal evaporation to ...

Since 2005, China has implemented various renewable energy industry poli-cies, which have led to the rapid development of renewable energy, continuous optimization of energy structure, ...

Ying Zhou. MOE Laboratory of Bioinorganic and Synthetic Chemistry, Lehn Institute of Functional Materials, School of Chemistry, Sun Yat-Sen University, No. 135, Xingang Xi Road, Guangzhou, 510275 China ... suggesting the great potential value in sustainable electrochemical energy storage and conversion devices. 1 Introduction.

PhD Candidate in Sustainability Management, Energy Council of Canada Energy Policy Research Fellow · o A dedicated young professional with 2+ years of researching, planning and implementing sustainability plans. & lt;br& gt;o Over a year experience in project coordination, multi-stakeholder engagement and environmental outreach. & lt;br& gt;o Experienced in sustainable ...

Enhanced lithium storage capability of FeF3·0.33H2O single crystal with active insertion site exposed Nano Energy (IF 17.6) Pub Date: 2018-11-28, DOI: 10.1016/j.nanoen.2018.11.080

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He is an awardee of the 2022 Office of Naval Research (ONR) Young Investigator Award and the 2022 National Science Foundation (NSF) Faculty Early Career Development Program (Career) Award. His areas of interest include energy storage, energy conversion, advanced manufacturing, and electronic materials and devices. Postdoctoral Associate

This work built a PV driven cold storage with ice thermal storage based on vapor compression refrigeration, where the compressor power was 4.41 kW. The system was designed in two modes of driving by utility electricity or PV array, and was expected to operate continuously via cascade evaporation in the cold storage. The hourly and daily performance was analyzed and ...

Prof. Ying ZHOU is Chair of Department of Disaster Mitigation for Structures, College of Civil Engineering, Tongji University, and Vice Director of International Joint Research Laboratory of Earthquake Engineering (ILEE). ... 8.A new type of energy-dissipating high-rise structural system with outrigger trusses. CN201310077051. 9.New type of ...

Semantic Scholar extracted view of "How to stimulate Chinese energy companies to comply with emission regulations? Evidence from four-party evolutionary game analysis" by Weixin Yang et al. ... Zhiwu Zhou Ying Wang Julián Alcal ... Analysis of inventive problem-solving capacities for renewable energy storage investments. Yue Meng R. Zhou H ...

Polyvinylidene fluoride (PVDF)-based fluoropolymers have generated interest in electrical energy storage due to their high dielectric constant. The dielectric properties of these fluoropolymers can be significantly improved by uniaxial/biaxial orientation, a common practice adopted in industrial manufacturing, but the underlying molecular origins still remain unclear. ...

Antiferroelectric materials are promising to be used for power capacitive devices. To improve the energy storage performance, solid-solution and defect engineering are widely used to suppress the long-range order by introducing local heterogeneities. However, both methods generally deteriorate either the maximum polarization or breakdown electric field due ...

Author links open overlay panel Ying Zhou 1, Ruiying Li 1, Zexuan Lv 3, Jian Liu 1 4, Hongjun Zhou 2 3, Chunming Xu 2. Show more. Add to Mendeley. Share. Cite. ... This method is mainly used for wind consumption and energy storage of large-scale wind site, and the route is shown in Fig. 4 [73]. For the off-grid system, the electrical energy is ...

Pei Luo, Qianru Li, Yang Zhou, Qian Ma, Ying Zhang, Yishuang Peng, Jihao Sun With the rapid development of high-speed and heavy-load electrified railway, the peak impact and the regenerative braking energy content of traction load become increasingly significant, which has become an important problem affecting the construction and ...

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Solid-state Li-metal batteries offer a great opportunity for high-security and high-energy-density energy storage systems. However, redundant interfacial modification layers, ...

In linear dielectric polymers (the electric polarization scales linearly with the electric field, such as polypropylene, PP), the electrical conduction loss is the predominant energy loss mechanism under elevated temperatures and high electric fields [14, 15] corporating highly insulating inorganic nanoparticles into polymer dielectrics has been proved effective in the ...

Solid-state Li-metal batteries offer a great opportunity for high-security and high-energy-density energy storage systems. However, redundant interfacial modification layers, intended to lead to an overall satisfactory interfacial stability, dramatically debase the actual energy density. Herein, a dual-interface amorphous cathode electrolyte interphase/solid ...

Zhitong Wang, Lizhi Xu, Yansong Zhou, Ying Liang, Jinlin Yang, Daoxiong Wu, Shuyu Zhang, Xingqi ... In-situ grown nickel iron bimetal organic frameworks from activated Ni foam for efficient energy storage and electrocatalysis: Study of metal ratio and nickel precursor effects. Journal of Power Sources 2024, 594, 233968.

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 ...

Ba (1-x) Sr x TiO 3, an ABO 3 type perovskites, is a solid solution composed of SrTiO 3 and BaTiO 3. The phase structure, electric properties and Curie temperature (T C) of Ba (1-x) Sr x TiO 3 can be continuously adjusted by changing the Sr content to meet different application requirements [25]. Much work has also been done in the field of dielectric energy ...

Developing advanced carbon nanomaterials with reasonable pore distribution and interconnection and matching the charge-storage capacities and electrode kinetics between the capacitive electrode and the battery-type electrode are two of the biggest challenges in lithium-ion capacitors (LICs). In this work, a sustainable strategy to fabricate N/S dual-doped ...

The dependence on portable devices and electrical vehicles has triggered the awareness on the energy storage systems with ever-growing energy density. Lithium metal batteries (LMBs) has revived and attracted considerable attention due to its high volumetric (2046 mAh cm -3), gravimetric specific capacity (3862 mAh g -1) and the lowest ...



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A dielectric capacitor is one widely utilized basic component in current electronic and electrical systems due to its ultrahigh power density. However, the low inherent energy density of a dielectric capacitor greatly restricts its practical application range in energy storage devices. Being different from the traditional nanofillers, the electrically charged ...

Antiferroelectric (AFE) thick (1 mm) films of Pb(1-3x/2)LaxZr0.85Ti0.15O3 (PLZT) with x = 0.08, 0.10, 0.12, and 0.14 were deposited on LaNiO3/Si (100) substrates by a sol-gel method. The dielectric properties, energy-storage performance, electrocaloric effect, and leakage current behavior were investigated in detail. With increasing La content, dielectric ...

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