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energy storage materials.[11] 1D nanostructured hybrid electrodes have been developed to tackle these problems in various energy storage systems.[12] Electrospinning is a cheap and easily tunable synthetic technique to create 1D fibers (with multiple embedded phases) that can assemble into 2D or 3D architectures.[13] Fur-

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Haitao Zhouhaitao19850@ujs .cn Contact:+86-18652898631 Research Interests:1. Synthesis and characterization of inorganic non-metallic energy materials (including functional ceramic materials and nano-carbon materials)2. Electrochemistry, including high-power energy storage devices (supercabatteries and supercapacitors), prelithiation, electroplating3.

DOI: 10.1016/J.CERAMINT.2016.12.042 Corpus ID: 100487455; Effect of K2O content on breakdown strength and energy-storage density in K2O-BaO-Nb2O5-SiO2 glass-ceramics @article{Wang2017EffectOK, title={Effect of K2O content on breakdown strength and energy-storage density in K2O-BaO-Nb2O5-SiO2 glass-ceramics}, author={Haitao Wang and ...

Highly ordered iron oxide nanotube array prepared by anodization was first applied as the electrode for supercapacitor. The 1-D nanostructure of the anodized a-Fe 2 O 3 nanotubes ensures good electrochemical performance of the electrode, which is attractive for supercapacitors. The anodic a-Fe 2 O 3 provides a robust structure with high surface area and ...

@article{Zhang2019UnveilingOT, title={Unveiling of the energy storage mechanisms of multi -modified (Nb2O5@C)/rGO nanoarrays as anode for high voltage supercapacitors with formulated ionic liquid

electrolytes}, author={Jiahe Zhang and Haitao Zhang and Yaqin Zhang and Junwei Zhang and Hongyan He and Xi-xiang Zhang and Jae-Jin Shim ...

DOI: 10.1016/j.ensm.2023.103012 Corpus ID: 264069510; Synergetic proton and Mg2+/Ca2+ insertion boosting aqueous divalent ion batteries @article{Zhou2023SynergeticPA, title={Synergetic proton and Mg2+/Ca2+ insertion boosting aqueous divalent ion batteries}, author={Rui Zhou and Ke Fan and Zhenpin Hou and Qun-jiao Liu and Haitao Huang and Biao ...

Battery energy storage systems (BESS) are being widely deployed as part of the energy transition. Accurate battery degradation modelling and prediction play an important role in BESS investment and revenue, planning and sizing, operational monitoring, and warranty check-ups. Complex operational behaviors and system variability make the battery degradation modelling ...

Li 2 S, a fully lithiated state of sulfur cathode with high capacity, is promising for lithium sulfur battery or lithium ion battery. To further decrease the cost and improve the utilization, single atomic Co catalyst is synthesized and embedded in inexpensive converted-Li 2 S nanocomposite. Theoretical simulations and electrochemical measurements demonstrate ...

DOI: 10.1016/j.jpowsour.2023.232995 Corpus ID: 257882738; An advanced organic cathode for non-aqueous and aqueous calcium-based dual ion batteries @article{Zhou2023AnAO, title={An advanced organic cathode for non-aqueous and aqueous calcium-based dual ion batteries}, author={Rui Zhou and Zhenpin Hou and Ke Fan and Ching Kit Tommy Wun and Qun Liu and ...

(10) Haitao Zhou? ... Delta Electric strengthens its energy storage business and launches global shipments of new battery systems Delta Electric, a prominent power supply manufacturer, has been actively advancing its energy storage business by targeting projects such as ...

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Rui Zhou, Ke Fan, Zhen Hou, Qun Liu, Haitao Huang, Biao Zhang Divalent ion batteries (Mg 2+, Ca 2+) are promising candidates for next-generation energy storage devices. However, divalent ions" large radius and high charge density commonly lead to sluggish diffusion kinetics, resulting in an inferior capacity and rate capability.

Haitao Li. Institute for Energy Research, School of Chemistry and Chemical Engineering, Jiangsu University, Zhenjiang, 212013 China ... of electric vehicles and the implementation of wind and solar energies have increased demands for high-performance energy storage systems. [1-3] ... Zhou et al. reported a MOF-derived ZnPd alloy. ...

Transition-metal carbides and nitrides (MXenes) have attracted significant interest owing to their desirable properties, abundance, and high electrocatalytic activity. Tremendous studies have demonstrated the potential of MXenes for energy conversion and storage. However, further development of this potential must address various aspects of ...

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Rui Zhou, Ke Fan, Zhen Hou, Qun Liu, Haitao Huang, Biao Zhang. Department of Health Technology and Informatics; The Hong Kong Polytechnic University ... Abstract. Divalent ion batteries (Mg 2+, Ca 2+) are promising candidates for next-generation energy storage devices. However, divalent ions" large radius and high charge density commonly lead ...

DOI: 10.1016/J.CEJ.2021.128476 Corpus ID: 233578609; Enhancement of dielectric breakdown strength and energy storage of all-polymer films by surface flattening @article{Luo2021EnhancementOD, title={Enhancement of dielectric breakdown strength and energy storage of all-polymer films by surface flattening}, author={Suibin Luo and T. Ansari and ...

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