

Although integrated energy storage devices, such as in-plane micro-supercapacitors (MSCs), are attractive for powering portable microelectronic devices, it is still challenging to develop patterning techniques with high practicability and to rationally design and fabricate electrochemically active materials using feasible procedures. Here, we propose a facile solution-immersion method of ...

It is essential for energy storage and conversion systems to construct electrodes and electrocatalysts with superior performance. In this work,  $\text{ZnCo}_2\text{S}_4@\text{Ni}(\text{OH})_2$  nanowire arrays are synthesized on nickel foam by hydrothermal methods. As a supercapacitor electrode, the  $\text{ZnCo}_2\text{S}_4@\text{Ni}(\text{OH})_2$  structure exhibits a specific capacitance of 1,263.0C g<sup>-1</sup> at 1 A g<sup>-1</sup>.

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In situ growth of  $\text{Cu}(\text{OH})_2 @\text{FeOOH}$  nanotube arrays on catalytically deposited Cu current collector patterns for high-performance flexible in-plane micro-sized energy storage devices+. Jin-Qi Xie ab, Ya-Qiang Ji a, Jia-Hui Kang a, Jia-Li Sheng a, Da-Sha Mao ab, Xian-Zhu Fu \* ac, Rong Sun a and Ching-Ping Wong de a Shenzhen Institutes of Advanced Technology, Chinese ...

In electrochemical energy storage systems, large-format  $\text{LiFePO}_4$  (LFP) batteries are usually formed the battery pack under preload force. However, the preload force effect on the safety of the ...

It is essential for energy storage and conversion systems to construct electrodes and electrocatalysts with superior performance. In this work,  $\text{ZnCo}_2\text{S}_4 @\text{Ni}(\text{OH})_2$  nanowire arrays are synthesized on nickel foam by hydrothermal methods. ... Rong-Da Zhao 2, Jun Xiang 3, Sroeurb Loy 1, Yi-Fei Di 1, Jia Li 1, Mei-Ting Li 1, Dong-Mei Ma 1 ...

Introduction to Advanced Energy and New Energy Storage Technologies. Mikhail Sheremet. Tomsk State University. July 29. 19:30-21:30. 2. Thermal mass energy storage. Ming-Jia Li. Beijing Institute of Technology. August 1. 19:30-21:30. 3 "Source-grid-load-storage" integrated energy system. Ming-Jia Li. Beijing Institute of Technology. August ...

Introducing interlayer water between reduced graphene oxide (rGO) nanoplatelets can help align these nanoplatelets ( $\text{Ti}_3\text{C}_2\text{T}_x$  MXene is a 2D material with metallic conductivity, hydrophilicity, and strong mechanical ...

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Xi Wu, Feiyu Kang,<sup>\*</sup> Wenhui Duan, Jia Li<sup>\*</sup>, Density functional theory calculations: A powerful tool to simulate and design high- performance energy storage and conversion materials, Progress in Natural Science: Materials International 2019, 29 : 247-255(Review). 2. Shuyang Zhao, Ke Wang, Xiaolong Zou,<sup>\*</sup> Lin Gan,<sup>\*</sup> Hongda Du, Chengjun Xu, Feiyu ...

Li, Jia () GZ. Associate Professor, Carbon Neutrality and Climate Change Thrust ... Qiu, Kaixuan; Li, Jia; Chen, Da Source: Energy Reports, v. 8, November 2022, p. 15436-15445 Article, 2022 ... China's coal power decarbonization via CO<sub>2</sub> capture and storage and biomass co-firing: A LCA case study in Inner Mongolia

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The core-shell structure is crucial for enhancing the electrochemical and electrocatalytic performance of supercapacitor electrode materials. To maximize the potential of NiCoO as an electrode material, this study

combines NiCoO with CoFe-LDH. Forming a NiCoO@CoFe LDH core-shell structured electrode material. Using NF as the substrate, NiCoO@CoFe-LDH ...

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S1. Electronic Supplementary Information (ESI) In-situ growth of Cu(OH)<sub>2</sub>@FeOOH nanotubes arrays on catalytically deposited Cu current collector patterns for high-performance flexible in ...

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Ming-Jia Li. Beijing Institute Technology, China. Verified email at bit .cn. ... Eccentricity optimization of a horizontal shell-and-tube latent-heat thermal energy storage unit based on melting and melting-solidifying performance. ZJ Zheng, Y Xu, MJ Li. Applied Energy 220, 447-454, 2018. 138:

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Yikai Jia, Jiani Li, Chunhao Yuan, Xiang Gao, Weiran Yao, Minwoo Lee, and Jun Xu\* DOI: 10.1002/aenm.202003868 superior cyclability and low cost. However, battery safety becomes an important factor hindering people from adopting LIBs as power sources in various scenarios. Understanding the fundamental mechanism of the LIB safety behavior would

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The overpotential of the NiCo<sub>2</sub>O<sub>4</sub>@CoFe-LDH catalyst material was 183 mV at 20 mA cm<sup>-2</sup>. The full water electrolysis test was carried out using a dual-electrode ...

Jia Li. ICQM, Peking University. Verified email at pku .cn. magnetism spintronics. Articles Cited by Public access Co-authors. Title. Sort. Sort by citations Sort by year Sort by title. Cited by. Cited by. Year; Novel chiral magnetic domain wall structure in Fe/Ni/Cu (001) films.

Shushuang Li, Huanqiao Li, Yansheng Zhang, Robert M. Garcia, Jia Li, Yan Xie, Jie Yin, Mingrun Li, Junhu Wang, John A. Shelnett, Tao Zhang, Yujiang Song\*, One-step synthesis of carbon-supported foam-like platinum with enhanced activity and durability, Journal of Materials Chemistry A, 2015, 3, 21562-21568.

It is shown that high-energy and strong penetrating g-irradiation significantly enhances capacitive energy storage performance of polymer dielectrics. g-irradiated biaxially oriented polypropylene (BOPP) films exhibit an extraordinarily high energy density of 10.4 J cm<sup>-3</sup> at 968 MV m<sup>-1</sup> with an efficiency of 97.3%.

Articles from the Special Issue on Modern Energy Storage Technologies for Decarbonized Power Systems under the background of circular economy with sustainable development; Edited by Ruiming Fang and Ronghui Zhang ... Hongsheng Jia, Siqi Li, Song Gao, Miao Han, ... Yanqing Liu. Article 111245 View PDF. Article preview.

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