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high-performance flexible in-plane micro-size 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 Suna and Ching-Ping Wongde a Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, Shenzhen 518055, China.

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Introducing interlayer water between reduced graphene oxide (rGO) nanoplatelets can help align these nanoplatelets ().Ti₃C₂T_x MXene is a 2D material with metallic conductivity, hydrophilicity, and strong mechanical properties (18-27) has been widely used to reinforce composites and prepare free-standing graphene-Ti₃C₂T_x sheets (26, ...

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Reducing energy requirements and enhancing MEA-CO₂ desorption rates in amine solutions with KIT-6 nanostructures ... storage, and utilization technology in China ... Qiu, Kaixuan; Li, Jia; Wei, Shiming Source: Gas Science and Engineering, v. 118, October 2023, article number 205114 ...

In situ growth of Cu(OH)₂@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 ...

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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

It is essential for energy storage and conversion systems to construct electrodes and electrocatalysts with superior performance. In this work, ZnCo₂S₄@Ni(OH)₂ nanowire arrays are synthesized on nickel foam by hydrothermal methods. As a supercapacitor electrode, the ZnCo₂S₄@Ni(OH)₂ structure exhibits a specific capacitance of 1,263.0C g⁻¹ at 1 A g⁻¹.

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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 ...

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^{-3} at 968 MV m^{-1} with an efficiency of 97.3%.

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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 ...

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