

Leaf Vein Super Flexible Capacitor



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[Flexible Supercapacitor Integrated Systems](#)

Apart from flexibility, flexible supercapacitor (FSC) integrated systems exhibit certain characteristics like rapid charge-discharge rates, high power density, and excellent cycling stability, ...

[Facile Fabrication of a Bio-Inspired Leaf Vein-Based Ultra-Sensitive](#)

Herein, an ultrasensitive and flexible humidity sensor on the basis of a natural leaf vein is proposed. The proposed humidity sensor is composed of a biodegradable natural leaf vein, aluminum (Al), non-toxic ...



[Enhancing supercapacitor performance through design optimization of](#)

We report on the development of LIG-based flexible supercapacitors with optimized geometries, which demonstrate high capacitance and energy density while maintaining flexibility and ...

[Liquid-metal microgrid stretchable electronics based on bionic ...](#)

The vein pattern of liquid-metal electrodes can significantly modulate the mechanical properties of the sensors and enhance the stretchability of the e-skin system. In this work, a design concept was ...



[\(PDF\) Leaf Vein-Inspired Nanochanneled Graphene Film for Highly](#)

This research presents a novel approach to enhance the performance of micro-supercapacitors (MSCs) by developing a leaf vein-inspired nanochanneled graphene film, designated as nc-PDDA-Gr.



[\(PDF\) Leaf Vein-Inspired Nanochanneled Graphene Film for Highly](#)

Inspired by natural vein-textured leaves, a 2D nanochanneled graphene film with high packing density and efficient ion transport pathways is proposed to facilitate high rate capabilities ...



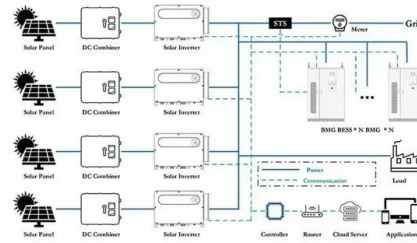
[Leaf Vein-Inspired Nanochanneled Graphene Film for Highly Efficient](#)

In addition to its superior energy density, the film is highly flexible and actually increases capacitance after initial use. The volumetric energy density was 10 times higher than currently ...



A leaf-vein-like MnO

In this work, inspired by natural plant (leaf-vein), a novel leaf-vein-like nanofiber composite membrane was constructed by coating MnO₂ nanosheets on the surface of tree-like nanofiber.



[Ti3C2Tx-NiCoSx modified bamboo-based film flexible electrode ...](#)

Inspired by the structure of natural leaves, a simple self-assembly process was used to integrate leaf mesophyll-like Ti₃C₂T_x-NiCoS_x with leaf vein-like bamboo fibers to design and ...

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The first use of water-dispersible Ag nanoparticle (Ag NP)-based ink to produce conductive leaf vein networks in flexible bending/pressure sensors was reported.



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