

Title: Stretchable super flexible capacitor

Generated on: 2026-03-18 08:04:13

Copyright (C) 2026 SMART SYSTEMS S.L. All rights reserved.

This work presents a novel approach for designing and constructing advanced hydrogel electrolytes as well as stretchable/compressible supercapacitors.

The practical applications of our flexible supercapacitor based on stretchable conducting polymer electrodes show the enormous potential in next-generation portable ...

The novelty of a flexible supercapacitor is the incorporation of flexible electrode or substrate material to combine structural flexibility with the inherently high power density of ...

By twisting the PANI-TPU fiber film a certain number of turns, a fiber supercapacitor capable of stabilizing under large tensile deformations is achieved.

As the demand for flexible wearable electronic devices increases, the development of light, thin and flexible high-performance energy-storage devices to power them is a research ...

It highlights the multifunctional SCs such as self-healable SCs, compressible SCs and the self-powered integrated system. Many attempts have been made to incorporate such ...

By introducing charged biomolecules (e.g., DNA and ferritin) on a flexible CNT fiber substrate, not only is the intrinsic capacitance significantly ...

By twisting the PANI-TPU fiber film a certain number of turns, a fiber supercapacitor capable of stabilizing under large tensile ...

This chapter deals with some basics of flexible and stretchable supercapacitors, and presents a brief comparison between conventional supercapacitors and flexible supercapacitors, and ...

In this study, an intrinsically stretchable rubber-based super-capacitor, for the first time, was fabricated from Co-Fe Prussian blue analogous (Co-Fe PBA)/sodium lignosul-fonate (LS)...



Stretchable super flexible capacitor

Source: <https://www.smart-telecaster.es/Mon-12-Jul-2021-17529.html>

Website: <https://www.smart-telecaster.es>

Website: <https://www.smart-telecaster.es>

