

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

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

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 ...

All-in-one flexible supercapacitor with ultrastable performance under extreme load

Flexible supercapacitors have become research hotspot as the energy storage device to power up the wearable and portable electronics due to their high specific capacitance and power ...

In this review, the unique mechanical properties, structural designs and fabrication methods of each flexible component are systematically classified, summarized and discussed based on the recent ...

Imagining an advanced smartphone, a miniature, light-weight, flexible electronic device with good power and energy capability, large-scale stretchability, and self-healing property is one step...

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 priority.

This chapter focuses on the recent progress in stretchable supercapacitors (SCs) and their potential application in wearable electronics. Viewed from device dimension, SCs have three main categories, ...

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

Web: <https://www.toptradegniezno.pl>

