GPE Utility Storage

Graphene capacitor solar container energy storage system

Overview

High-capacity graphene energy storage solution designed for grid, partial-grid, and microgrid applications. Built for resilience, it offers ultra-long lifecycle performance with zero thermal risk—ideal for large-scale backup and peak shaving.

Article Content

Study: Superconductivity switches on and off in “magic-angle” graphene

The graphene layers are sandwiched in between boron nitride layers (in blue and purple). The angle and alignment of each layer enables the researchers to turn superconductivity on and off

SUPRO Energy

SUPRO Energy provides industrial grade energy storage solutions for a broad spectrum of applications, ranging from peak shaving and UPS systems to

Physicists discover important new property for graphene

A new property Graphene is composed of a single layer of carbon atoms arranged in hexagons resembling a honeycomb structure. Since the material''s discovery, scientists have shown

A new way to make sheets of graphene

Graphene''s promise as a material for new kinds of electronic devices, among other uses, has led researchers around the world to study the material in search of new applications. But one of

Cold Storage Solid State Graphene Battery | Energy Resilience

High-capacity graphene energy storage solution designed for grid, partial-grid, and microgrid applications. Built for resilience, it offers ultra-long lifecycle performance with zero thermal risk—ideal

MIT physicists observe key evidence of unconventional ...

MIT physicists observed key evidence of unconventional superconductivity in magic-angle graphene. The findings could lead to the development of higher-temperature superconductors.

A graphene roll-out | MIT News | Massachusetts Institute of Technology

MIT engineers have developed a scalable manufacturing process that spools out strips of graphene for use in ultrathin membranes.

Transparent graphene electrodes might lead to new generation of

Large sheets of transparent graphene that could be used for lightweight, flexible solar cells or electronics displays can now be created using a method developed at MIT. The technique

U.S. scientists build graphene-based solar cells than

Researchers from the University of Arkansas in the United States have fabricated a graphene-based solar cell that can be used in Internet of

Graphene Super Capacitor Battery

Nex Cap Energy delivers graphene-enhanced supercapacitor solutions for instant, reliable, and eco-friendly power. Empowering solar, telecom, EV, and industrial

Graphene Super Capacitor – MTI Systems

It is a potent conductor of electrical and thermal energy, extremely lightweight chemically inert, and flexible with a large surface area. It is also considered eco

Solar, Wind, graphene supercapacitor energy storage

In order to use this energy during blackout periods, an energy storage solution is required. Ideally, it must be capable of being charged (store energy) and discharged many thousand times over its

Physicists measure a key aspect of superconductivity in “magic-angle ...

Physicists measured how readily a current of electron pairs flows through “magic-angle” graphene, a major step toward understanding how this unusual material superconducts.

Using graphene foam to filter toxins from drinking water

The graphene foam functions as well in seawater, where it reduces uranium concentrations from 3 parts per million to 19.9 ppb, showing that other ions in the brine do not

MintEnergy – Graphene Storage Solutions

It allows for expanded possibilities of using energy in places and applications never before imagined. This revolutionary supercapacitor is already being

Physicists discover a “family” of robust, superconducting graphene ...

MIT physicsts identified new multilayered configurations of graphene that can be twisted and stacked to elicit robust superconductivity at low temperatures. The study establishes these

Electrons become fractions of themselves in graphene, study finds

MIT physicists have observed fractional quantum Hall effect in simple pentalayer graphene. The finding could make it easier to develop more robust quantum computers.

Contact Us

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