

One of the most common applications is for equipment housings, essentially the concrete enclosures that house the batteries, inverters, and control panels. These units are often fire-rated, offering an ...

New concrete and carbon black supercapacitors with optimized electrolytes have 10 times the energy storage of previous designs and can be incorporated into a wide range of architectural ...

Ec³ combines conventional cement, water, a fine carbon powder known as nanoscale carbon black, and a liquid electrolyte to create a dense conductive network capable of storing and ...

Two electrodes made of this special concrete, separated by a thin space or an insulating layer, form a supercapacitor that can store energy.

MIT Concrete has long built our cities, but researchers now see it as a future power source, too. A new form of electron-conducting carbon concrete, or ec3, can store and release ...

MIT researchers have improved a new type of "concrete battery" by tenfold, paving the way for its use in turning buildings, bridges and sidewalks into giant energy stores capable of...

In a radical shift from mere structure to energy infrastructure, MIT researchers have developed a new form of concrete-- electron-conducting carbon concrete (ec³) --that stores and ...

This review explores the emerging role of cement-based materials in energy storage applications, with a specific focus on cement-based structural supercapacitors (CSSCs) and cement ...

Buildings and roads built with a new type of concrete could soon serve as giant batteries capable of powering homes and electric vehicles.

Now, a new study has made improvements on ways to turn giant slabs of concrete in batteries, which could help shore up storage solutions for renewable energy sources.

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