

A groundbreaking cement developed by Chinese scientists can now generate electricity from heat--thanks to a bio-inspired design that mimics plant stems. By combining hydrogel layers ...

He and his colleagues at Massachusetts Institute of Technology ...

In the CemSol research project, a team of scientists is developing and demonstrating a solar-heated calcination plant to produce cement. This process produces carbon dioxide, which is ...

Researchers have created a cement-based material that does more than just provide structural support--it can generate and store electricity. This breakthrough could mark a turning point ...

In this study, a novel volcanic-shaped device, coated with a salt-treated porous cement-carbon composite, was created to achieve impressive performance in both evaporation and ...

Ulm and his colleagues cut this wired cement into small plates, creating supercapacitors 1 millimeter thick and 1 centimeter wide, about the size of a button. After adding a membrane, an ...

He and his colleagues at Massachusetts Institute of Technology (MIT) have found a way of creating an energy storage device known as a supercapacitor from three basic, cheap materials - ...

A groundbreaking cement-hydrogel composite, developed by researchers in China, is turning this vision into reality. Inspired by the intricate structure of plant stems, this material harvests ...

MIT researchers have discovered that when you mix cement and carbon black with water, the resulting concrete self-assembles into an energy-storing supercapacitor that can put out enough juice...

Explore the crucial role of renewable energy in transforming the cement industry towards sustainability. This article discusses the significant environmental impacts of traditional cement ...

In a groundbreaking development, researchers in China have engineered a cement-based material that doesn't just provide structural support--it can also generate and store electricity.

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