

Title: Rechargeable cement batteries

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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 this paper, a novel rechargeable cement-based battery was developed by taking advantage of the ubiquitous properties of cement-based materials and selecting polyacrylic acid ...

Researchers developed a concept for rechargeable batteries made of cement. The concept starts with a cement-based mixture with small amounts of short carbon fibers added to increase the conductivity ...

Civil engineers at the university found a way to integrate electrically conductive fibers into a cement-based mixture. With this innovation, they could turn concrete slabs into batteries. This...

Scientists in Sweden have developed the world's first rechargeable cement-based battery. The invention opens up the tantalising possibility that concrete buildings and structures could one day be used to ...

This paper presents the development of novel rechargeable cement-based batteries with carbon fiber mesh for energy storage applications. With the increasing demand for sustainable ...

A rechargeable cement-based battery was developed, with an average energy density of 7 Wh/m<sup>2</sup> (or 0.8 Wh/L) during six charge/discharge cycles. Iron (Fe) and zinc (Zn) were selected as anodes, and ...

Battery solutions for light electric vehicles such as e-bikes, e-scooters and e-motorcycles. High power output, fast charging, and long cycle life ensure safe and efficient mobility. Energy storage batteries ...

A bioinspired conifer-like rechargeable cement-based batteries for low-carbon self-powered buildings is reported. This direction pore structure enhances ionic conductivity by four times ...

This innovative bioinspired design presents a promising pathway for scaling up cement-based energy storage



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systems to enable low-carbon, self-powered buildings.

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