

Discover how large-scale batteries allow you to store electricity, improve system management, and ensure supply at key moments.

Megapack is a utility-scale battery that provides reliable energy storage, to stabilize the grid and prevents outages. Find out more about Megapack.

This review describes the state-of-the-art of miniaturized lithium-ion batteries for on-chip electrochemical energy storage, with a focus on cell micro/nano-structures, fabrication techniques and corresponding ...

In recent years, a number of novel designs are proposed to increase the energy and power densities per footprint area, as well as other electrochemical performances of micro-sized lithium-ion batteries. ...

With a goal to speed the time to discovery of new grid energy storage technology, the team designed a compact, high-efficiency flow battery test system that requires an order of ...

Herein, we demonstrate the large-scale screen-printing production of planar monolithically integrated solid-state lithium ion MBs (LIMBs), with key characteristics of superior areal capacity, ...

Here we report record-high electrostatic energy storage density (ESD) and power density, to our knowledge, in HfO₂-ZrO₂-based thin film microcapacitors integrated into silicon, through a...

Now, researchers have engineered a new generation of microcapacitors that deliver both ultrahigh capacity and ultrafast operation. To achieve this breakthrough in miniaturized on-chip ...

Here, we propose a compact tube-in-tube battery configuration to overcome the areal energy density and packaging problems in microbatteries. Compact microtubular microelectrodes ...

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