

# A micro gas energy storage device





## Overview

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Are energy storage microdevices a good energy supplier?

Summary and prospective Energy storage microdevices (ESMDs) hold great promise as micro-sized power supplier for miniaturized portable/wearable electronics and IoT related smart devices. To fulfill the ever-increasing energy demands, ESMDs need to store as much energy as possible at fast rates in a given footprint area or volume.

Are active materials necessary for energy storage?

To this end, ingesting sufficient active materials to participate in charge storage without inducing any obvious side effect on electron/ion transport in the device system is yearning and essential, which requires ingenious designs in electrode materials, device configurations and advanced fabrication techniques for the energy storage microdevices.

Are compact configuration design and mechanical flexibility important for energy storage devices?

Their fast development demonstrates that compact configuration design and mechanical flexibility are two important criteria for latest energy storage devices to incorporate in prevailing miniaturized portable/wearable electronics and IoT related smart devices.

Why do we need micron/nanometer scaled power supplies?

Fast popularity of smart electronics stimulates the ever-growing demand for micron/nanometer scaled power supplies with simultaneously high energy density and fast power delivery.



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