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The energy devices for generation, conversion, and storage of electricity are widely used across diverse aspects of human life and various industry. Three-dimensional (3D) printing has emerged as ...

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Fig. 1 shows a representative architecture of the layers deposited by ALD (YSZ), sputtering (RuO x) and thermal evaporation (Au) in order to create the nanostructure of a thin ...

Traditional IoT devices operate generally with rechargeable batteries, which limit the weight, size, and cost of the device as well as the maintenance burden. To overcome these limitations, ...

This sets the new record for silicon capacitors, both integrated and discrete, and paves the way to on-chip energy storage. The 3D microcapacitors feature excellent power and ...

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 ...

In the past few decades, electricity production depended on fossil fuels due to their reliability and efficiency [1].Fossil fuels have many effects on the environment and directly ...

In article number 1807450, Khaled N. Salama, Husam N. Alshareef, and co-workers describe the integration of on-chip electrochemical microsupercapacitors with thin-film electronics at the ...

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