

Are NC HZO superlattice films suitable for 3D Si capacitors?

Ultimately, the ferroic-engineered NC HZO superlattice films integrated into 3D Si capacitors demonstrate record energy storage ( $80 \text{ mJ cm}^{-2}$ ) and power density ( $300 \text{ kW cm}^{-2}$ ), to our knowledge, across all dielectric electrostatic capacitors.

Do nanostructured storage devices increase capacitance density?

Nanostructured storage devices with 3D metal-insulator-metal (MIM) architectures--which require conformal metal and insulator deposition inside porous nanostructures--have successfully increased capacitance density, and therefore energy storage, per unit planar area (Fig. 3b, Supplementary Table 3).

Are electrostatic microcapacitors the future of electrochemical energy storage?

Moreover, state-of-the-art miniaturized electrochemical energy storage systems--microsupercapacitors and microbatteries--currently face safety, packaging, materials and microfabrication challenges preventing on-chip technological readiness<sup>2,3,6</sup>, leaving an opportunity for electrostatic microcapacitors.

Do dielectric electrostatic capacitors have a high energy storage density?

Dielectric electrostatic capacitors have emerged as ultrafast charge-discharge sources that have ultrahigh power densities relative to their electrochemical counterparts<sup>1</sup>. However, electrostatic capacitors lag behind in energy storage density (ESD) compared with electrochemical models<sup>1,20</sup>.

Can electrostatic capacitors amplify energy storage per unit planar area?

However, electrostatic capacitors lag behind in energy storage density (ESD) compared with electrochemical models<sup>1,20</sup>. To close this gap, dielectrics could amplify their energy storage per unit planar area if packed into scaled three-dimensional (3D) structures<sup>2,5</sup>.

Do thin film microcapacitors have record-high electrostatic energy storage density?

Here we report record-high electrostatic energy storage density (ESD) and power density, to our knowledge, in  $\text{HfO}_2$ - $\text{ZrO}_2$ -based thin film microcapacitors integrated into silicon, through a three-pronged approach.

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The energy storage capacitor is a 22 mF supercapacitor (BZ054B223ZSB) as this capacitance size can provide sufficient energy if discharged from 3.2 V to 2.2 V to power devices such as a wireless sensor node energy for several seconds to do meaningful

Capacitance: 1  $\mu\text{F}$  - 11,000  $\mu\text{F}$  Voltage: 500 V - 6,000 V... power transmission and transformation, and FACTS, high power conversion, DC filter of inverter, DC chaining, mine lifting, energy storage pulsed power, and etc.

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an energy storage capacitor selection should not be based on these parameters alone. Tantalum and TaPoly capacitor dielectrics are formed by dipping a very porous pellet of sintered Tantalum grains ... manufacturer or the intended application that the capacitor is designed for. The cathode is formed by a second process

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low leakage characteristics and an indefinite

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