

In summary, this work uses a simple codoping method to improve the energy storage performance of BiT thin film and elucidates the polarization switching behavior of a ...

Meanwhile, PLZT thin films demonstrated fatigue-free in both polarization and energy storage performance and independent bipolar electric fields, which are probably related to the highly ...

Request PDF | Superior energy storage performance, and fatigue resistance in ferroelectric BCZT thin films grown in oxygen rich atmosphere | Ferroelectric properties of the ...

Moreover, Bi<sub>4</sub>LaTi<sub>3</sub>FeO<sub>15</sub> films exhibited excellent energy storage performances in fatigue endurance and thermal stability. This work demonstrates that the route ...

The films also exhibited excellent anti-fatigue property (endurance of up to 3×10<sup>9</sup> cycles and the recoverable energy storage density varied from 39.78 to 29.32 J cm<sup>-3</sup> ...

Fatigue-Free and Bending-Endurable Flexible Mn-Doped Na<sub>0.5</sub>Bi<sub>0.5</sub>TiO<sub>3</sub>-BaTiO<sub>3</sub>-BiFeO<sub>3</sub> Film Capacitor with an Ultrahigh Energy Storage Performance Advanced Energy Materials ( IF 24.4 ...

In addition, the obtained thin film shows excellent energy storage properties in a wide frequency range, fatigue durability and good thermal stability. These results indicated that four-layered ...

Meanwhile, the BNT-SBT-2% Mn film displays a good frequency (10 Hz-2k Hz), temperature (20-200 °C), and fatigue (1-10<sup>5</sup> cycles) stability in electrical energy storage ...

The rapid progress in microelectronic devices has brought growing focus on fast charging-discharging capacitors utilizing dielectric energy storage films. However, the energy ...

The imprint effect in ferroelectric materials can significantly enhance the performance of energy storage devices. Bi<sub>4</sub>Ti<sub>3</sub>O<sub>12</sub> (BTO) and oxygen-deficien...

Ferroelectric thin film capacitors have attracted increasing attention because of their high energy storage density and fast charge-discharge speed, but less attention has been ...

Electrostatic energy-storage capacitors, with their ultrahigh storage density and high temperature stability, have been receiving increasing attention of late for their ability to ...

To conclude, the PMN-10PT thick-film structures presented here are one of the first ceramic-polymer layered

structures to provide high energy storage performance and flexural ...

Furthermore, the thin film exhibited a fatigue-free energy storage performance up to 10<sup>5</sup> cycles which is attributed to the enhanced polarization switching due to the hinderance ...

A superior energy storage density of 29.7 J/cm<sup>3</sup> with the energy storage efficiency of 50.8% was achieved in type B multilayer thin film, corresponding to 81% ...

Thin film capacitors with excellent energy storage performances, thermal stability and fatigue endurance are strongly desired in modern electrical and...

Dielectric capacitors have become a key enabling technology for electronics and electrical systems. Although great strides have been made in the development of ferroelectric ceramic ...

As a significant component of the present energy systems, renewable energy has been widely concerned and highly expected. In order to meet the demand for renewable ...

A superior fatigue-resistance (negligible energy performance degradation after 10<sup>9</sup> charge-discharge cycles) and a good thermal stability (from -170 to 150 °C) have also been ...

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By integrating films with high energy-storage performance on exible substrates, one could meet the energy fl conversion needs for numerous flexible applications like electronic textiles, ...

Consequently, a high energy density of 57 J cm<sup>-3</sup> with an efficiency of 88% was achieved. In addition, the bilayer film also exhibited excellent anti-fatigue and temperature ...

Thin film capacitors with excellent energy storage performances, thermal stability and fatigue endurance are strongly desired in modern electrical and electronic industry.

Fatigue-Free and Bending-Endurable Flexible Mn-Doped Na<sub>0.5</sub>Bi<sub>0.5</sub>TiO<sub>3</sub>-BaTiO<sub>3</sub>-BiFeO<sub>3</sub> Film Capacitor with an Ultrahigh Energy Storage Performance Changhong Yang, Panpan Lv, Jin ...

Nowadays, the growing demands for both high performance and environmentally friendly energy storage devices give impetus to the fast iteration of energy storage ...

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# Fatigue energy storage film

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