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Science of Advanced Materials

Donghee Son and Zhenan Bao discuss soft and robust skin-like electronic nanosystems and review several recent reports on materials strategies and integration methodologies of stretchable and self-healable functional nanomaterials, which are used as electrodes and active layers in stretchable sensors, transistors, multiplexed arrays, displays, and bio-integrated circuits.

ACS Nano (ACS Publications)

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Sintering - Wikipedia

In practice, this electromechanical coupling factor is commonly evaluated using a so-called resonance and antiresonance technique. With increasing measurement frequency, the impedance of piezoelectric materials is typically revealed as shown in Fig. 2(a) due to a mechanical resonance, the frequency of which is determined by the sample geometry for a given vibration mode.

Lead-free piezoceramics – Where to move on? - ScienceDirect

Yang Shao-Horn studies materials for electrochemical and photoelectrochemical energy storage and conversion, which is centered on examining the influence of surface chemistry and electronic structures of thin films and nanomaterials on lithium storage and catalytic activity of small molecules of energy consequence, and applying fundamental understanding in reaction mechanisms to design new ...

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American Scientific Publishers

Ferroelectricity is a characteristic of certain materials that have a spontaneous electric polarization that can be reversed by the application of an external electric field. All ferroelectrics are pyroelectric, with the additional property that their natural electrical polarization is reversible. The term is used in analogy to ferromagnetism, in which a material exhibits a permanent magnetic ...

Ferroelectricity - Wikipedia

The processes illustrated in Fig. 2.1 are by no means limiting or exhaustive. Depending on the specific application, these stages can be extended, altered, or with the exception of solvation and gelation, removed entirely.

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