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Electromechanical Energy Storage Devices





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[High Electromechanical Coupling Coefficient of ...](#)

In this work, a longitudinally excited shear-wave resonator (YBAR) based on single-crystalline lithium tantalate (LiTaO₃, LT) thin film is proposed. The YBAR has a 200 nm ...

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[Analytical Investigation of Electromechanical Hierarchical](#)

This work presents a theoretical study of outward and inward hierarchical metamaterials. Hierarchically configured multiple electromechanical resonators with shunt ...

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[Clamping Force Control of Electromechanical Brake Actuator ...](#)

Currently, most electromechanical brake (EMB) schemes are only suitable for passenger cars, and their maximum clamping force is insufficient to satisfy the braking ...

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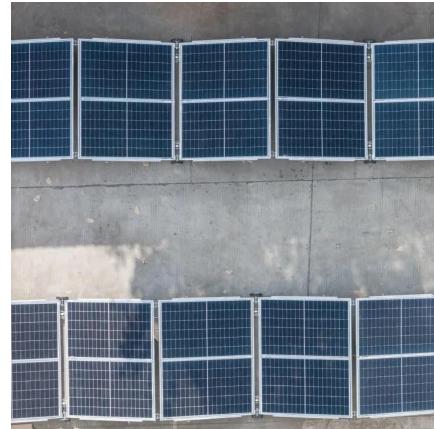
[Piezoelectric Transducers: Complete Electromechanical ...](#)

This paper presents a complete electromechanical (EM) model of piezoelectric transducers (PTs) independent of high or low coupling assumptions, vibration conditions, and ...



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[Nonlinear Dynamics of a Coupled Electromechanical ...](#)

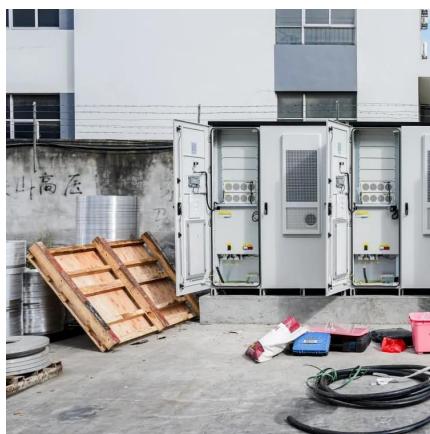
A coupled electromechanical model was proposed to investigate the vibration characteristics, highlighting the significance of rotor design in mitigating electromechanical ...

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Mechanics of Surface Instabilities in Soft Dielectrics Subject ...

As a category of polymeric materials, soft dielectrics, such as most elastomers and rubber-like materials, have shown great potential for extensive applications in various fields. ...

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[Numerical Study on Mechanical Behavior and ...](#)

After the validation of mechanical behavior and the electromechanical properties, the effects of soldering lap conditions including soldering thickness, overlap length and lap ...

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[An Empirical Study on the Impact of Digital Economy ...](#)

This study measures the export quality of electromechanical products using data from China's electromechanical products from 2011 to 2021, empirically investigates the ...

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[Dielectric Elastomer Generator for Electromechanical Energy ...](#)

The dielectric elastomer generator (DEG) has attracted attention in converting mechanical energy into electrical energy, due to its high energy density, fast response, and ...

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