

The current worldwide situation demands the efficient supply of sustainable energy, storing renewable energy, and converting it to other forms of energy for various ...

The high electrical conductivity of generated graphene gives the FsLIG samples excellent electrothermal effects. Owing to the anisotropic micro/nanostructures, the sheet ...

Importantly, three typical graphene technologies showing their practical potentials in electrochemical energy storage are illustrated in details, including the uses as conductive ...

The experimental results showed a maximum difference between the measured and calculated data of only 3.2%, which shows the scientific validity, accuracy, and advancement of the ...

Flexible/lightweight photovoltaic modules in future buildings, safe/reliable post-lithium-ion energy storage batteries combined with graphene and EHF can be more effective in ...

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Abstract Graphene (Gr) electrothermal film is a composite polymer conductive film that has garnered significant attention as a novel material due to its unique physical ...

2D graphene materials possess excellent electrical conductivity and an sp² carbon atom structure and can be applied in light and electric energy storage and conversion ...

Graphene, a two-dimensional carbon nanomaterial with exceptional electrical, mechanical, and chemical properties, has emerged as a game-changing material in the field of ...

Multifunctional textile-based electronics integrated with energy storage, joule heating, electromagnetic interference (EMI) shielding and sensing has become a favorable solution. ...

Among different techniques for the storage and release of energy, phase change materials hold great promise to satisfy the growing needs of smart thermal energy ...

Fabricating high-conductive composites and constructing highly conductive networks are crucial for high-performance electrothermal film. In this study, an Ag ...

Graphene electrothermal mural energy storage

Download Citation | On Mar 25, 2025, Yujie Liao and others published Shape-Stable, Phase Change Composite Hydrogel for Solar Thermal Energy Storage and Electrothermal Conversion ...

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The results also showed that one hour after the power was turned off, the surface temperature of the floor was still above 20 °C. The study shows that the graphene-heated ...

The present review focuses on the preparations, properties and applications of graphene materials in a few selected functional devices. We have summarized the mechanical ...

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