Energy storage fluorescence

Advanced multifunctional composite materials have been a significant force in the advancement of efficient solar-thermal energy conversion and storage, which is critical to address current ...

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Superior Energy Storage Capability and Fluorescence Negative Thermal Expansion of NaNbO₃-Based Transparent Ceramics by Synergistic Optimization.

We propose a new concept exploiting thermally activated delayed fluorescence (TADF) molecules as photosensitizers, storage units and signal transducers to harness solar ...

A novel type of metal-organic frameworks (MOFs) based photoluminescence-functionalized (PL) phase change materials (PCMs) was designed and fabricated for superior ...

Abstract The ultrafast charge/discharge rate and high power density (PD) endow lead-free dielectric energy storage ceramics (LDESCs) with enormous application potential in electric ...

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Although NaNbO 3-based antiferroelectric ceramic is considered as a potential lead-free energy storage material, the field-driven antiferroelectric-ferroelectric phase transition ...

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Carbon/graphene quantum dots are 0D fluorescent carbon materials with sizes ranging from 2 nm to around 50 nm, with some attractive properties and diverse applications. ...

The reinforced photothermal effect of conjugated dye/graphene oxide-based phase change materials: Fluorescence resonance energy transfer and applications in solar ...

Overall, the aforementioned enzymolysis-induced strategy has promising prospects in exploiting porous carbon nanomaterials with regulatable microscopic morphology ...

Here, a cooperative optimization strategy of microstructure control and superparaelectric regional regulation is proposed to simultaneously achieve excellent energy storage performance and ...

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