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In this work, a new type of Yb ³⁺ /Er ³⁺ co-doped lead-free glass-ceramics (GCs) containing Ba ₂ NaNb ₅ O ₁₅ nanocrystals was synthesized via traditional melt-quenching and controlled crystallization. The research results illustrate that a transparency of GCs can reach 50% at wavelength of 600 nm and the up-conversion (UC) luminous performance of GCs has ...

In addition, the transparent glass-ceramic exhibits excellent electrical properties under 700 kV cm ⁻¹ electric field: high discharge energy density ($W_d = 0.99 \text{ J cm}^{-3}$), huge instantaneous power density (225.3 MW cm ⁻³), and ultra-fast discharge rate ($T_{0.9} \leq 15.8 \text{ ns}$). The prepared glass-ceramic is expected to be a new type of lead ...

In this study, photoluminescent glass tiles with different content of yellow-emitting pigments are tested as a promising adaptive strategy for investigating their potential for lighting energy ...

These emission bands have stronger luminous intensity and show obvious dependence on temperature, but they are often ignored because most of them ... Performance comparison of GC770 with other energy storage glass ceramics. The calculation result shows that the instantaneous discharge power density can reach 225.3 MW cm ⁻³ at 700 kV cm ...

Efficient management of solar radiation through architectural glazing is a key strategy for achieving a comfortable indoor environment with minimum energy consumption. Conventional glazing consisting of a single or multiple glass pane(s) exhibits high visible light transmittance and solar heat gain coefficient, which can be a double-edged sword, i.e., it ...

direction and reflection. Basic optics laws tell us that when a light ray travels in a medium and finds a glass surface, for example, part of the incident ray is reflected and the rest is transmitted to the other side of the glass. Depending on glass characteristics and some other factors, the light transmitted exhibits a different range of

DOI: 10.1016/j.solener.2023.04.049 Corpus ID: 258800180; Study on the mechanics and functionalities of self-luminous cement-based materials with energy storage and slow release properties

Considering the luminous performance of the investigated glass tiles and focusing on the storage potential of

each sample, an intermediate percentage of photoluminescent pigments was found again to be the best option to choose: despite luminance values linearly increased with the pigments" content, the afterglow provided by Y-15% and Y-30% ...

The exposure time affects the energy storage of PPRMs. PPRMs cannot be fully excited with a short exposure time. With the extension of the illumination time, more energy is absorbed by the ground state electrons, and the defect level of the phosphorescent materials is gradually saturated. The afterglow intensity reaches the best level.

In recent years, niobate GCs are mainly used for linear dielectric energy storage because of their excellent high breakdown strength and dielectric properties. It is also a ...

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Overall, strontium aluminate doped with Eu ²? co-doped with Dy ³? (SrAl₂O₄:Eu ²?, Dy ³?) phosphors and self-luminous pavement for energy storage had great prospects in improving ...

By optimizing the glass composition, controlling the crystallization temperature and microstructure, the multifunctional RE doped niobate transparent GCs with good optical ...

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equity interest in its 350MW Hams Hall energy storage project last year. Its global development pipeline spans the United States, Chile, and Australia, encompassing more than 1.5 GW of solar and battery projects. Ends About Luminous Energy Luminous Energy is dedicated to delivering top-tier renewable energy projects that contribute to the

Indian NBFC Ecofy has now announced its partnership with Luminous Power Technologies, an energy solutions industry. The collaboration with Luminous aims to focus on the financing landscape for renewable energy projects, especially solar power projects. With the introduction of the PM Surya Ghar Yojana 2024, favorable market conditions and ...

dependable and cost-effective supplies for renewable energy projects. - E N D - About Luminous Energy Ltd Luminous Energy delivers world-class solar and energy storage projects to decarbonise electricity supply and limit humanity"s contribution to climate chaos. We are committed to providing affordable, renewable energy

and cooling of the house are much more complicated. High thermal energy storage (TES) materials are widely used in walls,20 floors,21 and roofs22 because they can reduce cooling/heating loads and shift energy load to low price periods.23-27 According to their principle of thermal energy storing, TES materials can be categorized into two types: sensible and latent. Sensible TES materials store energy by changing temperature, while latent TES materials store energy by changing phase.

Recently, Cao et al., [13] reported an energy-storing electrochromic device using Ta-doped TiO₂ nanocrystals as the active electrode and NiO-laminated indium tin oxide (ITO) glass in the counter electrode, which showed excellent band selectivity and charge-storage capacity of 466 mA.h.m⁻² @ 150 mA.m⁻² discharge rate. While the LSPR ...

1.2 Luminescence in Glass. The excitation energy obtained by a molecule when a photon is ... In technology the application of glass science in the treatment and storage of nuclear waste materials ... Liang X (2018) Tb³⁺, Eu³⁺ co-doped CsPbBr₃ QDs glass with highly stable and luminous adjustable for white LEDs. ACS Appl Mater Interfaces 10: ...

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Cement mixing and curing processes can remarkably influence the dispersion of luminescent powder (LP) in cement-based composite materials. Along these lines, in this work, self-luminous cement-based composite materials (SLCCMs) were fabricated by using three mixing methods: pre-mixing (LP added before the cement), together-mixing (LP added at the ...

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The achievement of simultaneous high energy-storage density and efficiency is a long-standing challenge for dielectric ceramics. Herein, a wide band-gap lead-free ceramic of NaNbO₃-BaZrO₃ featuring polar nanoregions with a rhombohedral local symmetry, as evidenced by piezoresponse force microscopy and transmission electron microscopy, were ...

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