



CaO₂ solar cells

Accordingly, in this study a series of mouse model- and cell-based experiments were performed that revealed the ability of CaO₂-PM-CsPbBr₃ QDs to activate mitophagic activity. Golm1 was upregulated in response to CaO₂-PM-CsPbBr₃ QDs treatment, and overexpressing Golm1 induced autophagic flux in the murine liver and hepatocytes, whereas ...

MIT researchers developed a scalable fabrication technique to produce ultrathin, flexible, durable, lightweight solar cells that can be stuck to any surface. Glued to high-strength fabric, the solar cells are only one-hundredth the weight of conventional cells while producing about 18 times more power-per-kilogram.

Organic-inorganic metal halide perovskite-based tandem solar cells have attracted significant research attention in recent years. The power conversion efficiency of perovskite-based ...

Electron transport material plays a critical role in perovskite solar cells. The most commonly used electron transport material, TiO₂, has to be sintered at high temperature to achieve good crystallinity and high carrier mobility, complicating the preparation procedure and limiting the development of flexible devices. ...

Vertical alignment persists at the solar cell level, giving rise to a record 9.4% power conversion efficiency with a 1.4 V open circuit voltage, the highest reported for a 2 eV wide band gap ...

After discovering a working CaO₂-based chemical reaction, the team tried to adapt the new battery design to wearable electronics applications. The technology is stable in air even when bent from 0 ...

CaO₂ [4], CaO₂,? [5] [6]? ? ...

CaO₂-PM-CsPbBr₃ QDs treatment caused a significant increase in the frequency of TUNEL-positive liver cells in WT mice, whereas this TUNEL-positive cell frequency was significantly reduced in Golm1-KO mice (Fig. 9 D and E), indicating a role for Golm1 in

Nearly all types of solar photovoltaic cells and technologies have developed dramatically, especially in the past 5 years. Here, we critically compare the different types of photovoltaic ...

,,, 100871 :2020-09-14 :2020-10-24 :2020-11-02 : E-mail:happy_zhou@pku .cn

Strongly oxidizing ·OH can induce tumor cells death for enhanced chemodynamic therapy (CDT). The H₂O₂ self-supplying and ·OH self-catalyzed nanocomposite exhibited favorable pH-controlled ·OH generation and excellent cancer cells growth inhibition ability, providing a potential nanotheranostics platform with active targeting and favorable therapeutic ...

(HA)CaO₂/CuO₂/Fe₃O₄/H₂O₂·OHpH·OH, ...



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The electron transport layer (ETL) of fiber perovskite solar cells (fPSCs) is involved in transporting electrons and blocking holes. In this work, we added a SnO₂ film on the TiO₂ surface to form a double-layered TiO₂/SnO₂ ETL to improve electron mobility and device performance. The resulting double ETL results in more uniform surface morphology and the ...

The researchers focused on the dye-sensitized solar cell (DSSC) due to its low cost and high transformation efficiency. TiO₂ photoanode was modified by doping the wide band gap ...

Editor's summary. The long-term stability of perovskite solar cells has been improved with an atomic-layer deposition (ALD) method that replaces the fullerene electron ...

Perovskite solar cells (PSCs) with an inverted (p-i-n) architecture are recognized to be one of the mainstream technical routes for the commercialization of this emerging photovoltaic ...

,??,?,?>>

Perovskite solar cells (PSCs) have been developed rapidly in the past decade, with their record power conversion efficiency (PCE) now exceeding 26% 1.While gold (Au) serves as the preferred back ...

The cis-CyDAI₂ passivation treatment reduces the Quasi-Fermi level splitting (QFLS)-open circuit voltage (V_{oc}) mismatch of the WBG pero-SCs with a bandgap of 1.88 eV ...

The development of stretchable electrodes for intrinsically stretchable organic solar cells (IS-OSCs) with both high power conversion efficiency (PCE) and mechanical stability is crucial for wearable electronics. However, research on top electrodes that maintain high conductivity and excellent stretchability

Solution-processed technologies for (semi)transparent top electrodes remain suboptimal, although see-through perovskite solar cells (s-PSCs) are required in realizing window-integrated photovoltaics. Herein, we choose an inorganic perovskite, CsPbBr₃, offering the best matching example with wavelength-selective transparency and weatherability, and present the ...

,(PEG),TiO₂,Ti(OC₄H₉)₄?,(TN-P400,TN-P4000TN-P8000) ...

The theory of solar cells explains the process by which light energy in photons is converted into electric current when the photons strike a suitable semiconductor device.The theoretical studies are of practical use because they predict the ...

Current high-efficiency organic solar cells (OSCs) are generally fabricated in an inert atmosphere that limits their real-world scalable manufacturing, while the efficiencies of air ...



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During the wound tissue healing process, the relatively weak driving forces of tissue barriers and concentration gradients lead to a slow and inefficient penetration of bioactive substances into the wound area, consequently showing an impact on the effectiveness of deep wound healing. To overcome these chall

With the gradual progression of the carbon neutrality target, the future of our electricity supply will experience a massive increase in solar generation, and approximately 50% of the global electricity generation will come from solar generation by 2050. This provides the opportunity for researchers to diversify the applications of photovoltaics (PVs) and integrate for daily use in the future ...

A conventional crystalline silicon solar cell (as of 2005). Electrical contacts made from busbars (the larger silver-colored strips) and fingers (the smaller ones) are printed on the silicon wafer. Symbol of a Photovoltaic cell. A solar cell or ...

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