

Can perovskite photovoltaic technology be used in pulp & paper industry?

This research can not only provide high-performance green solutions for the perovskite photovoltaic field but is also expected to open up new, high-value-added application areas for the pulp and paper industry. Bleached chemical softwood pulp was obtained through the sulfate pulping process.

How are p i n perovskite solar cells made?

fabrication of p -i -n perovskite solar cells. All layers were prepared by vacuum sublimation of the corresponding inorganic or organic materials in high-vacuum chambers. A scheme of the device structure is reported in Fig. 1a.

How do p i n solar cells perform?

function on the performance of p -i -n solar cells, where the electron transport layer is deposited on top of the perovskite and before the metal electrode. We compared the performance of the devices using BCP, Liq or combinations of them, using either Ag or Ba as the top electrode.

Why is haze paper important for photovoltaic materials?

Haze, one of the unique properties of paper, is the effect of light scattering in the cellulose fiber matrix, which can increase the area of light utilization. Therefore, high transmittance and high haze paper can maximize the light utilization efficiency of photovoltaic materials.

How to make ohmic contacts in polymeric solar cells?

In inorganic semiconductor devices, differential doping is a common approach to make ohmic contacts. However, it is difficult to implement this approach in polymeric solar cells and a different strategy is used to extract charge carriers from the photoactive layer.

Can UV-blocking extend the lifespan of functional cellulose paper?

However, the inherent instability under UV illumination limits their practical applications. In this work, we developed a new approach to fabricate functional cellulose paper (FTH paper) with high transparency, high haze, and UV-blocking, which can be used to extend the lifespan of PSCs.

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3 Results 3.1 Interlayer surface passivating properties of MoO_x contacts. In this section, we investigate and compare the influence of different interlayers, i.e. a-Si:H(i), ...

A bilayer photovoltaic device consisting of a heterojunction between colloidal cadmium selenide (CdSe)

quantum dots (QDs) and a wide band gap organic hole-transporting thin film of N,N'' ...

Cathode interlayers (CILs) in organic photovoltaics (OPVs) are actively being researched as they are critical for device stability and performance. Herein, N-annulated perylene diimide with a 2 ...

Wearable flexible electronics often require sustainable power sources that are also mechanically flexible to survive the extreme bending that accompanies their general use. In general, thinner ...

For devices with both Li- and Cd-doped ZnO, the performances were significantly improved, including the short-circuit current, open-circuit voltage, fill factor (FF), and power ...

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"Safety Standard for PV DC Arc Fault Circuit Protection." The detection scope, detection precision, and shutdown response time reach the L4 level specified in the CGC/GF 175: 2020 ...

Figure 3. Photoresponse of the Gr/WS2(1L)/Gr devices. (a) Plots the I_{ds} - V_{ds} curves of Gr/WS2(1L)/Gr device with various gate voltages during the forward sweep in dark ...

For example, an ultrathin insulating interlayer, such as LiF, is commonly inserted between the organic active layer and the Al cathode to enhance the efficiency of electron collection.^{8,9} This ...

Integrated photovoltaic modules, in which N- individual P3HT/PCBM-70 cells (N=1-4) are connected in series, exhibit a short-circuit current I_{SC} of 1.4 +/- 0.1 mA and an ...



Photovoltaic paper circuit board interlayer paper

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