

The fabrication of the Ag-nanoparticles SCNTs film-n-type crystalline silicon bulk heterojunction photovoltaic devices is easy, cost-effective, and easily scaled up. This paper demonstrates ...

Light scattering is a widely used phenomenon in the study of soft materials, condensed matter, and biological substances. ... Yuan J. et al. 2019 Single-junction organic ...

Single-component organic solar cells (SCOSCs), with covalently linked donor ...

In case of single-junction solar cell, the best possible value of bandgap is close to 1.1 eV and the SQ limit is estimated around 30% for such Si solar cells having 1.1 eV bandgap . The record ...

Toxicants like Pb in lead-based perovskite solar cells (PSCs) may become available to humans through leaching and transport through water, air, and soil. Here, we ...

To increase the efficiency of single-junction solar cells by lowering thermalization and non-absorption losses, researchers are looking into the usage of luminescent materials as ...

Two dimensional materials have exciting optical and electronic properties and have gained significant attention for the formation of new generation solar cells also ...

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Single-component organic solar cells (SCOSCs), with covalently linked donor and acceptor, attract considerable attention for their improved thermodynamic stability over ...

Recently in Joule, Min and co-workers reported a single-component organic solar cell using a conjugated donor-acceptor block copolymer (PBDB-T-b-PYT); a remarkable efficiency of 11.32% was realized with impressive photostability ...

This Review summarizes the types of materials used in the photoactive layer of solution-processed organic solar cells, discusses the advantages and disadvantages of ...

Here, we uncover that utilizing a mixed-cation single-crystal absorber layer (FA 0.6 MA 0.4 PbI<sub>3</sub>) is capable of redshifting the external quantum efficiency (EQE) band edge past that of FAPbI<sub>3</sub> ...

PSCs, as a new type of third-generation solar cell, have been developed significantly during the last decade.

Because of their high power conversion efficiency (PCE) ...

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For single-point exposure estimates, we used the SPLP result of 5.5 mg/L as the Pb leachate concentration from perovskite modules. However, this concentration should be ...

Their study found that solar cells with a perovskite single-crystal thickness of 200  $\mu\text{m}$  exhibit higher efficiency than solar cells with a single-crystal thickness of 500  $\mu\text{m}$ .

Perovskite solar cells (PSCs) emerge as a leading next-generation photovoltaic (PV) technology, with power conversion efficiencies (PCEs) reaching 26.7% for single cells ...

The dye-sensitized solar cell (DSSC), a molecular solar cell technique, has the potential to generate solar cells for less than \$0.5/W<sub>peak</sub> [5]. Researchers and industry ...

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