

Semi-transparent organic solar power generation

Semi-transparent organic solar cells (ST-OSCs) have attracted significant research attention, as they have strong potential to be applied in automobiles and buildings.

Keywords: ((Semi-transparent organic solar cells, light utilization efficiency, infrared mirror, optical modelling, reflecting back electrode)) Abstract Semi-transparent organic solar cells (STOSC) ...

Organic-inorganic hybrid perovskite solar cells (PSCs) have been extensively investigated as a next-generation renewable energy source to replace fossil fuels with the aim ...

Agronomy. Recognizing the growing interest in the application of organic photovoltaics (OPVs) with greenhouse crop production systems, in this study we used flexible, roll-to-roll printed, semi-transparent OPV arrays as a roof shade ...

We demonstrate a semitransparent organic photovoltaic cell that achieves a power conversion efficiency of 10.8% and visible transparency of ~50% using a nonfullerene acceptor (NFA) featuring strong near-infrared (NIR) absorption ...

The solar panels were able to switch from a transparent, non-perovskite, noncolored state (AVT = 81.7%) with low power output to a deeply colored perovskite phase (AVT = 35.4%) with high ...



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