

Heavy water additive in formamidinium: A novel approach to enhance the perovskite solar cell efficiency. Ankur Solanki 1,2,167; Mohammad Mahdi Tavakoli 3,167; Qiang Xu 1, Sai S.H. ...

Contrary to the disadvantages of deuterated perovskites, such as shorter recombination lifetimes and lower/invariant efficiencies, the serendipitous effect of D₂O as a beneficial solvent ...

A stabilized, intrinsically safe, 10% efficient, solar-driven water-splitting cell incorporating earth-abundant electrocatalysts with steady-state pH gradients and product ...

The results not only provide a strategy to fabricate high efficiency inverted perovskite solar cells but also reveal how the water additive in the PbI₂/DMF solution may ...

Herein, heavy water (D₂O) is employed as an additive in PbI₂ precursor to manipulate the average grain size and enhance surface coverage of perovskite film, resulting ...

Heavy water or deuterium oxide (D₂O) comprises of deuterium, a hydrogen isotope twice the mass of hydrogen. In contrast to the report of shorter charge carrier lifetimes and ...

Deuterium oxide as a solvent additive enhances the power conversion efficiency of triple-cation perovskite solar cells. It passivates the defects, thus enhancing the charge ...

adapted from organic solar cells 9, provides an effective and facile means for optimizing the morphology, suppressing the defects in perovskite film, and thus improving the PCE. Early ...

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The performance and stability of organic-inorganic hybrid perovskite solar cells (PSCs) is sensitive to water and moisture in an ambient environment. Understanding how H₂O ...

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