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Title: Dual-component solar cells

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Here we report an inorganic-organic hybrid CIL (AZnO-F3N), developed by a dual-component synergy strategy, which integrates organic material PNDIT-F3N with two ...

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This work not only provides an effective approach to fabricate high-performance TOSCs, but also demonstrates the importance of developing dual compatible PD materials.

To address this challenge, the research team proposed an innovative organic/inorganic "dual-component synergy" strategy. They ...

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The aim of this study is to simulate and optimize Pb-based perovskite heterojunction solar cells to advance the efficiency of perovskite solar cells. Here, we have fine ...

To address this bottleneck, the researchers proposed a dual-component synergy strategy for designing a novel hybrid CIL, AZnO-F3N, ...

In this work, we introduce an innovative sequential casting technique to fabricate highly efficient quaternary OPVs with a meticulously tailored morphology featuring layers of ...

In conclusion, this paper reports a promising ternary strategy for the successful fabrication of highly efficient dual-donor TSCs through the incorporation of D18-Cl as a pivotal ...

In this work, we present the first application of two-dimensional (2D) amorphous zinc oxide (A-ZnO) in OSCs, combined with the organic conjugated material PNDIT-F3N (ref. ...

A more profound mechanism for enhancing efficiency through dual mechanisms, that are the guest energy transfer to PM6 and charge transport at the donor/acceptor interface, has been ...

To address this bottleneck, the researchers proposed a dual-component synergy strategy for designing a novel hybrid CIL, AZnO-F3N, by integrating organic material PNDIT ...

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