

Title: Application of perovskite single crystal components

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In this review, the intrinsic physical properties of perovskite single crystals are analyzed. The most recent advances in single-crystal ...

In this review, we summarized the synthesis, properties, and applications of organic-inorganic mixed and all-inorganic perovskite single crystals, particularly through the ...

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The advent of organic-inorganic hybrid metal halide perovskites has revolutionized photovoltaics, with polycrystalline thin films reaching over 26% efficiency and ...

In this review, the intrinsic physical properties of perovskite single crystals are analyzed. The most recent advances in single-crystal optoelectronic devices are reviewed, ...

This review aims to provide an overview of the promising approaches explored to address specific challenges of perovskites that ...

This work highlights the importance of cross-disciplinary innovation and provides an effective pathway for integrating perovskite ...

Monocrystalline PERC (Passivated Emitter and Rear Cell) technology has become a cornerstone in solar energy. Its efficiency and durability make it a preferred choice for ...

This review aims to provide an overview of the promising approaches explored to address specific challenges of perovskites that benefit from the single crystal nature, restricting ...

Next, the fundamental optoelectronic properties of the perovskite single crystals are summarized. Then, the outstanding performance of the single crystals in applications, such as ...

In this work, we introduce a self-assembled monolayer (SAM) deposition strategy that exploits an asymmetric substrate stack configuration during space-confined inverse ...

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