

Understanding the degradation mechanism of perovskite solar cells (PSCs) is of particular importance to solve their instability issue, which is one of the major hindrances toward ...

The power conversion efficiency (PCE) of perovskite solar cells (PSCs) have soared to a certified value of 25.5% in recent years, exceeding that of the commercialized rivals, such as polycrystalline silicon, cadmium ...

Organic solar cells (OSC) based on organic semiconductor materials that convert solar energy into electric energy has been constantly developing at present, and also an effective way to ...

1 Supporting Information Mechanical strengthening of perovskite-substrate heterointerface for highly stable solar cells Xuesong Leng,<sup>a</sup> Yichu Zheng,<sup>b</sup> Jingjing He,<sup>c</sup> Benben Shen,<sup>a</sup> ...

HAPs are powered by the renewable solar energy to achieve long endurance. One representative HAP is the Airbus Zephyr S [36], which has kept the record of the longest airborne time of ...

Perovskite solar cells (PSCs) have shown power conversion efficiencies (PCEs) of over 26% that rival crystalline silicon cells, but their projected application was largely postponed by the ...

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Research in materials science is contributing to progress towards a sustainable future based on clean energy generation, transmission and distribution, the storage of electrical and chemical ...

[4-7] There is a huge market for green hydrogen technologies combined with solar energy harvest. [8, 9] Photocatalysis for water splitting was discovered by Fujishima and Honda in 1972, providing a way to convert solar energy to ...

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