

Is the oxygen-deficient lamp powered by solar energy

Efficiencies of all-perovskite tandem solar cells are dominantly constrained by the challenges pertaining to defects and stability within tin-lead (Sn-Pb) perovskite sub-cells. On top of the well-studied oxygen oxidation, defects related to ...

Here, we present oxygen-deficient black ZrO_{2-x} as a new material for sunlight absorption with a low band gap around ~ 1.5 eV, via a controlled magnesiothermic reduction in 5% H_2/Ar from ...

Au nanoparticles can further enhance the full solar absorption of oxygen-deficient TiO_2 as high as 50% under solar-simulated light irradiance at an intensity of 1000 W m^{-2} ...

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Oxygen vacancies in complex metal oxides and specifically in perovskites are demonstrated to significantly enhance their electrocatalytic activities due to facilitating a degree of control in the material's intrinsic ...

The light coming from space is strong enough to fully power a solar panel even if it's partially overlapped by another solar panel and only partially exposed. ... they should still produce ...

Moreover, oxygen-deficient MOs have also been confirmed to enhance pseudocapacitive energy storage in organic electrolytes. Kim et al. [147] introduced OV's into $\alpha\text{-MoO}_3$ (denoted as R-MoO_{3-x}) and investigated the ...

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The solar absorption becomes increasingly stronger with the heat treatment temperature. 1200°C is an appropriate treatment temperature for oxygen-deficient TiO_2 ...

It shows for the first time a dramatic increase in solar light absorbance and significant activity for solar light-induced H_2 production from methanol-water with excellent stability up to 30 days ...

Engineering an efficient interface is a trustworthy strategy for designing advanced photocatalytic systems for

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solar energy conversion. Herein, oxygen-deficient Bi₂WO₆ atomic ...

Synthesis of Surface Oxygen-deficient BiPO₄ Nanocubes with Enhanced Visible Light ... the utilization of solar energy. As is known that visible light response of the photocatalyst needs ...

The decoloration (88%) of orange (II) sodium salt solution (pH 2) under simulated solar light was possible at 20 min. This study highlights the effect of surface oxygen defects, crystal size and energy band-gap on the ...

<p>Electrochromic smart windows have attracted much attention in energy-saving buildings because of their ability to selectively modulate visible (VIS) and near-infrared (NIR) light ...

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