

Electrochemical energy conversion and storage systems are presently playing a lead role in the global energy platform. This study reports the fabrication of a Hydroelectric Cell (HEC) via the ...

The oxygen-deficient material has the intrinsic property of splitting water. It produces electricity by utilising the dissociated H^+ / OH^- ions on the oxygen-deficient surface of ...

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 ...

The as-prepared black ZrO_{2-x} exhibited excellent optical absorption capability, a small band gap (2.09 eV for direct and 1.67 eV for indirect), and a reduced conduction band energy, which is ...

The photocatalytic activities of TiO_2 have been limited mainly to absorbing in the ultraviolet spectrum which accounts for only 5% of solar radiation. High energy band gap and ...

The solar absorption becomes increasingly stronger with the heat treatment temperature. 1200 $^{\circ}C$ is an appropriate treatment temperature for oxygen-deficient TiO_2 ...

Abstract. Owing to their nonemissive characteristics, electrochromic materials promise distinct advantages in developing next-generation eye-friendly information displays. Yet, it remains a ...

The solar absorption becomes increasingly stronger with the heat treatment temperature. 1200 $^{\circ}C$ is an appropriate treatment temperature for oxygen-deficient TiO_2 according to X-ray ...

The crystalline protection layer provides high-density structure and enhances stability, and at the same time oxygen defects allow the carrier transport with low resistance as ...

Facile synthesis of oxygen-deficient MoO_{3-x} nanosheets by light radiation for fast electrochromic supercapacitors. ... and directly display the energy state in real time to the ...

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 ...



Oxygen-deficient solar power generation display

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