

Oxygen-deficient solar power can be used as a light bulb

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In this work, we demonstrate a new solar-microbial (PEC-MFC) hybrid device based on the oxygen-deficient Nb_2O_5 nanoporous ($\text{Nb}_2\text{O}_{5-x}$ NPs) anodes for sustainable ...

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The preparation of metal oxide semiconductors in non-stoichiometric (oxygen-deficient) form can lead to significant change in their optical and electronic properties, and hence affect the ...

This review discusses recent advances in synthetic approaches of oxygen-deficient metal oxides and their applications in photocatalysis, electrocatalysis, and energy storage devices.

The resulting oxygen deficient TiO_2 has a lower energy band-gap, smaller pore sizes, and enhanced photo-catalytic properties. The decoloration (88%) of orange (II) sodium salt solution (pH ...



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