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Core-shell nanostructured "black" rutile titania as excellent catalyst for hydrogen production enhanced by sulfur doping

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#	Paper	IF	Citations
399	In Situ Formation of Pyridine-Type Carbonitrides-Modified Disorder-Engineered CTiO ₂ Used for Enhanced Visible-Light-Driven Photocatalytic Hydrogen Evolution.		
398	Carrier Step-by-Step Transport Initiated by Precise Defect Distribution Engineering for Efficient Photocatalytic Hydrogen Generation.		
397	Enhanced Solar Water Oxidation Performance of TiO ₂ via Band Edge Engineering: A Tale of Sulfur Doping and Earth-Abundant CZTS Nanoparticles Sensitization.		
396	Epitaxial growth of ZnO Nanodisks with large exposed polar facets on nanowire arrays for promoting photoelectrochemical water splitting. 2014 , 10, 4760-9		53
395	An advanced Ag-based photocatalyst Ag ₂ Ta ₄ O ₁₁ with outstanding activity, durability and universality for removing organic dyes. 2014 , 16, 23915-21		42
394	Black TiO ₂ nanotube arrays for high-efficiency photoelectrochemical water-splitting. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 8612-8616	13	296
393	Enhanced photoelectrochemical water splitting performance of TiO ₂ nanotube arrays coated with an ultrathin nitrogen-doped carbon film by molecular layer deposition. <i>Nanoscale</i> , 2014 , 6, 6692-700	7.7	62
392	Synergistic catalysis of Au/Cu/TiO ₂ -NB nanopaper in aerobic oxidation of benzyl alcohol. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 16292-16298	13	33
391	Rapid formation of black titania photoanodes: pulsed laser-induced oxygen release and enhanced solar water splitting efficiency. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 6762-6771	13	42
390	Solar hydrogen generation by a CdS-Au-TiO ₂ sandwich nanorod array enhanced with Au nanoparticle as electron relay and plasmonic photosensitizer. <i>Journal of the American Chemical Society</i> , 2014 , 136, 8438-49	16.4	472
389	Tunable Optical and Photocatalytic Performance Promoted by Nonstoichiometric Control and Site-Selective Codoping of Trivalent Ions in NaTaO ₃ . <i>Journal of Physical Chemistry C</i> , 2014 , 118, 10728-10739	3.8	42
388	Unveiling Two Electron-Transport Modes in Oxygen-Deficient TiO ₂ Nanowires and Their Influence on Photoelectrochemical Operation. 2014 , 5, 2890-6		46
387	A facile low-temperature approach to designing controlled amorphous-based titania composite photocatalysts with excellent noble-metal-free photocatalytic hydrogen production. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 4743-51	9.5	24
386	Photoelectrochemical reduction of aqueous protons with a CuO CuBi ₂ O ₄ heterojunction under visible light irradiation. 2014 , 16, 22462-5		66
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384	Core-shell structured silicon nanoparticles@TiO ₂ -x/carbon mesoporous microfiber composite as a safe and high-performance lithium-ion battery anode. <i>ACS Nano</i> , 2014 , 8, 2977-85	16.7	202
383	Self-modification of titanium dioxide materials by Ti ³⁺ and/or oxygen vacancies: new insights into defect chemistry of metal oxides. <i>RSC Advances</i> , 2014 , 4, 13979-13988	3.7	84

382	Effective nonmetal incorporation in black titania with enhanced solar energy utilization. 2014 , 7, 967		317
381	Ordered mesoporous black TiO ₂ as highly efficient hydrogen evolution photocatalyst. <i>Journal of the American Chemical Society</i> , 2014 , 136, 9280-3	16.4	736
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379	Significantly Enhanced Visible Light Photoelectrochemical Activity in TiO ₂ Nanowire Arrays by Nitrogen Implantation. 2015 , 15, 4692-8		138
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