

Photocatalytic hydrogen production using metal doped

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Indium-Doped TiO <sub>2</sub> Photocatalysts with High-Temperature Anatase Stability. <i>Journal of Physical Chemistry C</i> , 2019, 123, 21083-21096.	1.5	69
2	Optical properties of TiO <sub>2</sub> thin films deposited by DC sputtering and their photocatalytic performance in photoinduced process. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 20017-20028.	3.8	22
3	Simultaneous reduction of Cr (VI) and degradation of azo dyes by F-Fe-codoped TiO <sub>2</sub> /SiO <sub>2</sub> photocatalysts under visible and solar irradiation. <i>Canadian Journal of Chemistry</i> , 2019, 97, 659-671.	0.6	7
4	Photocatalytic Degradation of Pharmaceuticals Carbamazepine, Diclofenac, and Sulfamethoxazole by Semiconductor and Carbon Materials: A Review. <i>Molecules</i> , 2019, 24, 3702.	1.7	92
5	Hydrogen Photo-Production from Glycerol Using Nickel-Doped TiO <sub>2</sub> Catalysts: Effect of Catalyst Pre-Treatment. <i>Energies</i> , 2019, 12, 3351.	1.6	13
6	Synthesis of Bi <sub>2</sub> FexNbO <sub>7</sub> films applied as a catalyst for hydrogen production using visible-light photo-electrolysis. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 659, 012081.	0.3	3
7	Ultrathin Two-Dimensional Semiconductors for Photocatalysis in Energy and Environment Applications. <i>ChemCatChem</i> , 2019, 11, 6147-6165.	1.8	55
8	Preparation of TiO <sub>2</sub> and Fe-TiO <sub>2</sub> with an Impinging Stream-Rotating Packed Bed by the Precipitation Method for the Photodegradation of Gaseous Toluene. <i>Nanomaterials</i> , 2019, 9, 1173.	1.9	20
9	Construction of CoP/B doped g-C <sub>3</sub> N <sub>4</sub> nanodots/g-C <sub>3</sub> N <sub>4</sub> nanosheets ternary catalysts for enhanced photocatalytic hydrogen production performance. <i>Applied Surface Science</i> , 2019, 496, 143738.	3.1	44
10	Toward the Green Production of H <sub>2</sub> : Binary Pt-Ru Promoted Nb-TiO <sub>2</sub> Based Photocatalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 15671-15683.	3.2	17
11	Nanostructured heterogeneous photo-catalysts for hydrogen production and water splitting: A comprehensive insight. <i>Applied Materials Today</i> , 2019, 17, 159-182.	2.3	41
12	The Role of Fluorine in F-La/TiO <sub>2</sub> Photocatalysts on Photocatalytic Decomposition of Methanol-Water Solution. <i>Materials</i> , 2019, 12, 2867.	1.3	12
13	Photocatalytic Approaches for Hydrogen Production via Formic Acid Decomposition. <i>Topics in Current Chemistry</i> , 2019, 377, 27.	3.0	17
14	Ternary photocatalyst of atomic-scale Pt coupled with MoS <sub>2</sub> co-loaded on TiO <sub>2</sub> surface for highly efficient degradation of gaseous toluene. <i>Applied Catalysis B: Environmental</i> , 2019, 256, 117877.	10.8	56
15	2D Nanomaterials for Photocatalytic Hydrogen Production. <i>ACS Energy Letters</i> , 2019, 4, 1687-1709.	8.8	375
16	Effect of thickness and cracking phenomena on the photocatalytic performances of Ti/TiO <sub>2</sub> photoanodes produced by dip coating. <i>Materials Chemistry and Physics</i> , 2019, 234, 1-8.	2.0	4
17	Hydrogen thermo-photo production using Ru/TiO <sub>2</sub> : Heat and light synergistic effects. <i>Applied Catalysis B: Environmental</i> , 2019, 256, 117790.	10.8	44
18	Exploring improvement of photocatalytic and catalytic performance in Nd-doped BiYO <sub>3</sub> nanotube systems. <i>Inorganic Chemistry Communication</i> , 2019, 106, 151-157.	1.8	10

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19	Next-Generation Multifunctional Carbon-Metal Nanohybrids for Energy and Environmental Applications. <i>Environmental Science &amp; Technology</i> , 2019, 53, 7265-7287.	4.6	109
20	Red phosphorus decorated and doped TiO <sub>2</sub> nanofibers for efficient photocatalytic hydrogen evolution from pure water. <i>Applied Catalysis B: Environmental</i> , 2019, 255, 117764.	10.8	151
21	Deposition of platinum on boron-doped TiO <sub>2</sub> /Ti nanotube arrays as an efficient and stable photocatalyst for hydrogen generation from water splitting. <i>RSC Advances</i> , 2019, 9, 11443-11450.	1.7	7
22	Surface modification of titanium oxide as efficient support of metal nanoparticles for hydrogen production via water splitting. <i>Materials Chemistry and Physics</i> , 2019, 232, 331-338.	2.0	9
23	Efficient H <sub>2</sub> production by photocatalytic water splitting under UV or solar light over variously modified TiO <sub>2</sub> -based catalysts. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 14796-14807.	3.8	38
24	Photocatalytic Hydrogen Production: Role of Sacrificial Reagents on the Activity of Oxide, Carbon, and Sulfide Catalysts. <i>Catalysts</i> , 2019, 9, 276.	1.6	214
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26	Fast microwave-assisted hydrothermal synthesis of TiNb <sub>2</sub> O <sub>7</sub> nanoparticles. <i>International Journal of Ceramic Engineering &amp; Science</i> , 2019, 1, 235-240.	0.5	6
27	Photochemical Thermodynamic Efficiency Factors (PTEFs) for Hydrogen Production Using Different TiO <sub>2</sub> Photocatalysts. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 22225-22235.	1.8	8
28	Hydrogen Production from Aqueous Methanol Solutions Using Ti-Zr Mixed Oxides as Photocatalysts under UV Irradiation. <i>Catalysts</i> , 2019, 9, 938.	1.6	12
29	Synthesis of Plasmonic Photocatalysts for Water Splitting. <i>Catalysts</i> , 2019, 9, 982.	1.6	23
30	Facile and Large-scale Synthesis of Defective Black TiO <sub>2-x</sub> (B) Nanosheets for Efficient Visible-light-driven Photocatalytic Hydrogen Evolution. <i>Catalysts</i> , 2019, 9, 1048.	1.6	19
31	Recent advances in earth-abundant photocatalyst materials for solar H <sub>2</sub> production. <i>Advanced Powder Technology</i> , 2020, 31, 11-28.	2.0	64
32	A highly active three-dimensional Z-scheme ZnO/Au/g-C <sub>3</sub> N <sub>4</sub> photocathode for efficient photoelectrochemical water splitting. <i>Applied Catalysis B: Environmental</i> , 2020, 263, 118180.	10.8	126
33	Rapid detection of low concentration CO using Pt-loaded ZnO nanosheets. <i>Journal of Hazardous Materials</i> , 2020, 381, 120944.	6.5	98
34	Crystal facets engineering and rGO hybridizing for synergistic enhancement of photocatalytic activity of nickel disulfide. <i>Journal of Hazardous Materials</i> , 2020, 384, 121402.	6.5	11
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38	Simultaneous Removal of Cu(II) and Cr(VI) Ions from Wastewater by Photoreduction with TiO <sub>2</sub> @ZrO <sub>2</sub> . Journal of Water Process Engineering, 2020, 33, 101052.	2.6	25
39	Hydrogen photogeneration using ternary CuGaS <sub>2</sub> -TiO <sub>2</sub> -Pt nanocomposites. International Journal of Hydrogen Energy, 2020, 45, 1510-1520.	3.8	24
40	Enhanced removal of sulfamethoxazole by a novel composite of TiO <sub>2</sub> nanocrystals in situ wrapped-Bi <sub>2</sub> O <sub>4</sub> microrods under simulated solar irradiation. Chemical Engineering Journal, 2020, 384, 123278.	6.6	62
41	Role of molecular oxygen on the synthesis of Ni(OH) <sub>2</sub> /TiO <sub>2</sub> photocatalysts and its effect on solar hydrogen production activity. International Journal of Hydrogen Energy, 2020, 45, 7627-7640.	3.8	20
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43	Mo-doped ZnIn <sub>2</sub> S <sub>4</sub> Flower-Like Hollow Microspheres for Improved Visible Light-Driven Hydrogen Evolution. Solar Rrl, 2020, 4, 1900483.	3.1	76
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48	Exploring the effect of neodymium doped titanium dioxide nanoparticles in dye-sensitized solar cell. Materials Today: Proceedings, 2020, 50, 2764-2764.	0.9	1
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56	Atmospheric Pressure Plasma Deposition of TiO <sub>2</sub> : A Review. <i>Materials</i> , 2020, 13, 2931.	1.3	29
57	Photocatalytic oxidation process for treatment of gas phase benzene using Ti <sup>3+</sup> self-doped TiO <sub>2</sub> microsphere with sea urchin-like structure. <i>Chemical Engineering Journal</i> , 2020, 402, 126220.	6.6	41
58	Mesoporous Nitrogen Doped Zinc Oxide Nanosheets with Enhanced Photocatalytic Activity. <i>International Journal of Electrochemical Science</i> , 2020, 15, 8459-8470.	0.5	4
59	Visible-Light Acceleration of H <sub>2</sub> Evolution from Aqueous Solutions of Inorganic Hydrides Catalyzed by Gold-Transition-Metal Nanoalloys. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 53816-53826.	4.0	26
60	Defective Titanium Dioxide-supported Ultrasmall Au Clusters for Photocatalytic Hydrogen Production. <i>Frontiers in Physics</i> , 2020, 8, .	1.0	2
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66	Photocatalytic active silver organic framework: Ag(I)-MOF and its hybrids with silver cyanamide. <i>Applied Organometallic Chemistry</i> , 2020, 34, e5972.	1.7	10
67	Fe-doped zirconia nanoparticles with highly negative conduction band potential for enhancing visible light photocatalytic performance. <i>Applied Surface Science</i> , 2020, 530, 147291.	3.1	18
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74	Hydrogen production through photoreforming processes over Cu <sub>2</sub> O/TiO <sub>2</sub> composite materials: A mini-review. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 28531-28552.	3.8	51
75	Effect of Pd and Au on Hydrogen Abstraction and C-C Cleavage in Photoconversion of Glycerol: Beyond Charge Separation. <i>Journal of Physical Chemistry C</i> , 2020, 124, 20320-20327.	1.5	6
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83	Synthesis of Ni- and N-Doped Titania Nanotube Arrays for Photocatalytic Hydrogen Production from Glycerol-Water Solutions. <i>Catalysts</i> , 2020, 10, 1234.	1.6	9
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92	Catalytic Metal-Accelerated Crystallization of High-Performance Solution-Processed Earth-Abundant Metal Oxide Semiconductors. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 25000-25010.	4.0	4
93	Recent development in band engineering of binary semiconductor materials for solar driven photocatalytic hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 15985-16038.	3.8	187
94	Electronic and optical properties of mono and co-doped anatase TiO <sub>2</sub> : First principles calculations. <i>Materials Chemistry and Physics</i> , 2020, 252, 123285.	2.0	19
95	Highly Defective Dark Nano Titanium Dioxide: Preparation via Pulsed Laser Ablation and Application. <i>Materials</i> , 2020, 13, 2054.	1.3	27
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100	Heterostructured thin LaFeO <sub>3</sub> /g-C <sub>3</sub> N <sub>4</sub> films for efficient photoelectrochemical hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 17468-17479.	3.8	42
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104	Boosting the photocatalytic ability of hybrid BiVO <sub>4</sub> -TiO <sub>2</sub> heterostructure nanocomposites for H <sub>2</sub> production by reduced graphene oxide (rGO). <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020, 111, 325-336.	2.7	27
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