

## List of Publications by Year in descending order

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155  
papers

12,669  
citations

20759

60  
h-index

24915

109  
g-index

156  
all docs

156  
docs citations

156  
times ranked

14058  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrocatalytic arsenite oxidation using iron oxyhydroxide polymorphs ( $\hat{1}\pm$ , $\hat{1}^2$ , and $\hat{1}^3$ -FeOOH) in aqueous bicarbonate solution. <i>Applied Catalysis B: Environmental</i> , 2021, 283, 119608.	10.8	40
2	Electrocatalytic activities of electrochemically reduced tubular titania arrays loaded with cobalt ions in flow-through processes. <i>Chemical Engineering Journal</i> , 2021, 404, 126410.	6.6	7
3	A review on lithium recovery using electrochemical capturing systems. <i>Desalination</i> , 2021, 500, 114883.	4.0	96
4	Reduced titania nanorods and Ni $\hat{1}$ Mo $\hat{1}$ S catalysts for photoelectrocatalytic water treatment and hydrogen production coupled with desalination. <i>Applied Catalysis B: Environmental</i> , 2021, 284, 119745.	10.8	23
5	Optimizing RuOx $\hat{1}$ TiO $\hat{2}$ composite anodes for enhanced durability in electrochemical water treatments. <i>Chemosphere</i> , 2021, 265, 129166.	4.2	2
6	Electrocatalytic activity of metal-doped SnO $\hat{2}$ for the decomposition of aqueous contaminants: Ta-SnO vs. Sb-SnO. <i>Chemical Engineering Journal</i> , 2021, 409, 128175.	6.6	20
7	An organometal halide perovskite photocathode integrated with a MoS $\hat{2}$ catalyst for efficient and stable photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2021, 9, 22291-22300.	5.2	14
8	Synergistic effect of Sn doping and hydrogenation on hematite electrodes for photoelectrochemical water oxidation. <i>Materials Chemistry Frontiers</i> , 2021, 5, 6592-6602.	3.2	7
9	The effect of nanostructure dimensionality on the photoelectrochemical properties of derived TiO $\hat{2}$ films. <i>Electrochimica Acta</i> , 2021, 373, 137900.	2.6	9
10	Standalone photoconversion of CO $\hat{2}$ using Ti and TiOx-sandwiched heterojunction photocatalyst of CuO and CuFeO $\hat{2}$ films. <i>Applied Catalysis B: Environmental</i> , 2021, 288, 119985.	10.8	14
11	Enhancing electrochemical degradation of phenol at optimum pH condition with a Pt/Ti anode electrode. <i>Environmental Technology (United Kingdom)</i> , 2020, 41, 3248-3259.	1.2	19
12	Fouling and performance of outer selective hollow fiber membrane in osmotic membrane bioreactor: Cross flow and air scouring effects. <i>Bioresource Technology</i> , 2020, 295, 122303.	4.8	12
13	Ion $\hat{1}$ Enhanced Conversion of CO $\hat{2}$ into Formate on Porous Dendritic Bismuth Electrodes with High Efficiency and Durability. <i>ChemSusChem</i> , 2020, 13, 698-706.	3.6	42
14	Surface passivation of zinc ferrite nanorod photoanodes by spray-deposited silicon oxide layer for enhanced solar water splitting. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020, 107, 89-97.	2.7	5
15	Electrocatalytic arsenite oxidation in bicarbonate solutions combined with CO $\hat{2}$ reduction to formate. <i>Applied Catalysis B: Environmental</i> , 2020, 265, 118607.	10.8	31
16	Effect of Fe/N-doped carbon nanotube (CNT) wall thickness on CO $\hat{2}$ conversion: A DFT study. <i>Sustainable Materials and Technologies</i> , 2020, 26, e00224.	1.7	3
17	Theoretical insight into effect of cation $\hat{1}$ anion pairs on CO $\hat{2}$ reduction on bismuth electrocatalysts. <i>Applied Surface Science</i> , 2020, 532, 147459.	3.1	18
18	In Situ-Generated Reactive Oxygen Species in Precharged Titania and Tungsten Trioxide Composite Catalyst Membrane Filters: Application to As(III) Oxidation in the Absence of Irradiation. <i>Environmental Science &amp; Technology</i> , 2020, 54, 9601-9608.	4.6	17

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19	Facile Electrochemical Synthesis of Highly Efficient Copper-Cobalt Oxide Nanostructures for Oxygen Evolution Reactions. <i>Journal of the Electrochemical Society</i> , 2020, 167, 026510.	1.3	14
20	Ag(I) ions working as a hole-transfer mediator in photoelectrocatalytic water oxidation on WO <sub>3</sub> film. <i>Nature Communications</i> , 2020, 11, 967.	5.8	66
21	High-Efficiency Solar Desalination Accompanying Electrocatalytic Conversions of Desalted Chloride and Captured Carbon Dioxide. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 15320-15328.	3.2	32
22	Synthesis of Aliphatic Acids from CO <sub>2</sub> and Water at Efficiencies Close to the Photosynthesis Limit Using Mixed Copper and Iron Oxide Films. <i>ACS Energy Letters</i> , 2019, 4, 2075-2080.	8.8	24
23	Facile thermochemical conversion of FeOOH nanorods to ZnFe <sub>2</sub> O <sub>4</sub> nanorods for high-rate lithium storage. <i>RSC Advances</i> , 2019, 9, 21444-21450.	1.7	2
24	Enhanced Charge Transfer Process in Morphology Restructured TiO <sub>2</sub> Nanotubes via Hydrochloric Acid Assisted One Step <i>In Situ</i> Hydrothermal Approach. <i>ChemCatChem</i> , 2019, 11, 5606-5614.	1.8	6
25	Computational density functional theory study on the selective conversion of CO <sub>2</sub> to formate on homogeneously and heterogeneously mixed CuFeO <sub>2</sub> and CuO surfaces. <i>Catalysis Today</i> , 2019, 335, 345-353.	2.2	20
26	Water industry: water-energy-health nexus. <i>Environmental Science and Pollution Research</i> , 2019, 26, 1013-1014.	2.7	5
27	Direct In Situ Growth of Centimeter-Scale Multi-Heterojunction MoS <sub>2</sub> /WS <sub>2</sub> /WSe <sub>2</sub> Thin-Film Catalyst for Photo-Electrochemical Hydrogen Evolution. <i>Advanced Science</i> , 2019, 6, 1900301.	5.6	60
28	Computational characterization of nitrogen-doped carbon nanotube functionalized by Fe adatom and Fe substituent for oxygen reduction reaction. <i>Applied Surface Science</i> , 2019, 485, 342-352.	3.1	7
29	Efficient fouling control using outer-selective hollow fiber thin-film composite membranes for osmotic membrane bioreactor applications. <i>Bioresource Technology</i> , 2019, 282, 9-17.	4.8	39
30	Solar hydrogen peroxide production on carbon nanotubes wired to titania nanorod arrays catalyzing As(III) oxidation. <i>Applied Catalysis B: Environmental</i> , 2019, 252, 55-61.	10.8	19
31	Exploring the photoelectrocatalytic behavior of free-standing TiO <sub>2</sub> nanotube arrays on transparent conductive oxide electrodes: Irradiation direction vs. alignment direction. <i>Catalysis Today</i> , 2019, 335, 319-325.	2.2	5
32	Electrocatalytic cogeneration of reactive oxygen species for synergistic water treatment. <i>Chemical Engineering Journal</i> , 2019, 358, 497-503.	6.6	11
33	Electrocatalytic water treatment using carbon nanotube filters modified with metal oxides. <i>Environmental Science and Pollution Research</i> , 2019, 26, 1036-1043.	2.7	22
34	Effects of electrochemical synthetic conditions on surface property and photocatalytic performance of copper and iron-mixed p-type oxide electrodes. <i>Journal of Materials Science and Technology</i> , 2018, 34, 1503-1510.	5.6	12
35	Sunlight-charged heterojunction TiO <sub>2</sub> and WO <sub>3</sub> particle-embedded inorganic membranes for night-time environmental applications. <i>Photochemical and Photobiological Sciences</i> , 2018, 17, 491-498.	1.6	6
36	Analytical pyrolysis reaction characteristics of <i>Porphyra tenera</i> . <i>Algal Research</i> , 2018, 32, 60-69.	2.4	27

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37	Irradiation of liquid phase plasma on photocatalytic decomposition of acetic acid-containing wastewater over metal oxide photocatalysts. <i>Catalysis Today</i> , 2018, 307, 131-139.	2.2	20
38	Rapid photocatalytic degradation of nitrobenzene under the simultaneous illumination of UV and microwave radiation fields with a TiO <sub>2</sub> ball catalyst. <i>Catalysis Today</i> , 2018, 307, 65-72.	2.2	42
39	Electrosprayed BiVO <sub>4</sub> nanopillars coated with atomic-layer-deposited ZnO/TiO <sub>2</sub> as highly efficient photoanodes for solar water splitting. <i>Chemical Engineering Journal</i> , 2018, 333, 721-729.	6.6	63
40	Photoelectrochemical hydrogen production using CdS nanoparticles photodeposited onto Li-ion-inserted titania nanotube arrays. <i>Catalysis Today</i> , 2018, 303, 289-295.	2.2	11
41	Solar desalination coupled with water remediation and molecular hydrogen production: a novel solar water-energy nexus. <i>Energy and Environmental Science</i> , 2018, 11, 344-353.	15.6	111
42	High efficiency solar chemical conversion using electrochemically disordered titania nanotube arrays transplanted onto transparent conductive oxide electrodes. <i>Applied Catalysis B: Environmental</i> , 2018, 226, 194-201.	10.8	21
43	Plasmonic gold nanoparticle-decorated BiVO <sub>4</sub> /ZnO nanowire heterostructure photoanodes for efficient water oxidation. <i>Catalysis Science and Technology</i> , 2018, 8, 3759-3766.	2.1	34
44	Activation of a highly oriented columnar structure of ZnFe <sub>2</sub> O <sub>4</sub> for photoelectrochemical water splitting: Orchestrated effects of two-step quenching and Sn <sup>4+</sup> diffusion. <i>Solar Energy Materials and Solar Cells</i> , 2018, 187, 207-218.	3.0	29
45	Electrocatalytic activities of Sb-SnO <sub>2</sub> and Bi-TiO <sub>2</sub> anodes for water treatment: Effects of electrocatalyst composition and electrolyte. <i>Catalysis Today</i> , 2017, 282, 57-64.	2.2	35
46	Homogeneous photoconversion of seawater uranium using copper and iron mixed-oxide semiconductor electrodes. <i>Applied Catalysis B: Environmental</i> , 2017, 207, 35-41.	10.8	27
47	Effect of liquid phase plasma on photocatalysis of water for hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 17386-17393.	3.8	12
48	Assembling a supercapacitor electrode with dual metal oxides and activated carbon using a liquid phase plasma. <i>Journal of Environmental Management</i> , 2017, 203, 880-887.	3.8	10
49	Catalysis for water purification. <i>Catalysis Today</i> , 2017, 282, 1.	2.2	1
50	Effect of shape-driven intrinsic surface defects on photocatalytic activities of titanium dioxide in environmental application. <i>Applied Surface Science</i> , 2017, 423, 71-77.	3.1	7
51	Highly efficient hydrogen production using p-Si wire arrays and NiMoZn heterojunction photocathodes. <i>Applied Catalysis B: Environmental</i> , 2017, 217, 615-621.	10.8	17
52	Molecular catalysts for artificial photosynthesis: general discussion. <i>Faraday Discussions</i> , 2017, 198, 353-395.	1.6	6
53	Facilitating hole transfer on electrochemically synthesized p-type CuAlO <sub>2</sub> films for efficient solar hydrogen production from water. <i>Journal of Materials Chemistry A</i> , 2017, 5, 10165-10172.	5.2	40
54	Enhancement of Hydrogen Evolution from Water Photocatalysis Using Liquid Phase Plasma on Metal Oxide-Loaded Photocatalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 3659-3666.	3.2	32

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55	TiO <sub>2</sub> complexed with dopamine-derived polymers and the visible light photocatalytic activities for water pollutants. <i>Journal of Catalysis</i> , 2017, 346, 92-100.	3.1	71
56	A facile synthesis of CuFeO <sub>2</sub> and CuO composite photocatalyst films for the production of liquid formate from CO <sub>2</sub> and water over a month. <i>Journal of Materials Chemistry A</i> , 2017, 5, 2123-2131.	5.2	73
57	Sulfur-containing air pollutants as draw solution for fertilizer drawn forward osmosis desalination process for irrigation use. <i>Desalination</i> , 2017, 424, 1-9.	4.0	23
58	Enhanced Solar Water Oxidation Performance of TiO <sub>2</sub> via Band Edge Engineering: A Tale of Sulfur Doping and Earth-Abundant CZTS Nanoparticles Sensitization. <i>ACS Catalysis</i> , 2017, 7, 8077-8089.	5.5	39
59	Mo-doped BiVO <sub>4</sub> nanotextured pillars as efficient photoanodes for solar water splitting. <i>Journal of Alloys and Compounds</i> , 2017, 726, 1138-1146.	2.8	23
60	Sequential Combination of Electro-Fenton and Electrochemical Chlorination Processes for the Treatment of Anaerobically-Digested Food Wastewater. <i>Environmental Science &amp; Technology</i> , 2017, 51, 10700-10710.	4.6	61
61	Template-engineered epitaxial BiVO <sub>4</sub> photoanodes for efficient solar water splitting. <i>Journal of Materials Chemistry A</i> , 2017, 5, 18831-18838.	5.2	42
62	Ultra-efficient and durable photoelectrochemical water oxidation using elaborately designed hematite nanorod arrays. <i>Nano Energy</i> , 2017, 39, 211-218.	8.2	171
63	Nanotextured cupric oxide nanofibers coated with atomic layer deposited ZnO-TiO <sub>2</sub> as highly efficient photocathodes. <i>Applied Catalysis B: Environmental</i> , 2017, 201, 479-485.	10.8	41
64	Platinum-decorated Cu(InGa)Se <sub>2</sub> /CdS photocathodes: Optimization of Pt electrodeposition time and pH level. <i>Journal of Alloys and Compounds</i> , 2017, 692, 294-300.	2.8	5
65	Photocatalytic H <sub>2</sub> production on trititanate nanotubes coupled with CdS and platinum nanoparticles under visible light: revisiting H <sub>2</sub> production and material durability. <i>Faraday Discussions</i> , 2017, 198, 419-431.	1.6	12
66	ZnO nanostructure electrodeposited on flexible conductive fabric: A flexible photo-sensor. <i>Sensors and Actuators B: Chemical</i> , 2017, 240, 1106-1113.	4.0	25
67	Dual modification of hematite photoanode by Sn-doping and Nb <sub>2</sub> O <sub>5</sub> layer for water oxidation. <i>Applied Catalysis B: Environmental</i> , 2017, 201, 591-599.	10.8	47
68	Microporous Zeolites as Catalysts for the Preparation of Decyl Glucoside from Glucose with 1-Decanol by Direct Glucosidation. <i>Catalysts</i> , 2016, 6, 216.	1.6	6
69	Stand-alone photoconversion of carbon dioxide on copper oxide wire arrays powered by tungsten trioxide/dye-sensitized solar cell dual absorbers. <i>Nano Energy</i> , 2016, 25, 51-59.	8.2	58
70	Characterization of Bimetallic Fe-Ru Oxide Nanoparticles Prepared by Liquid-Phase Plasma Method. <i>Nanoscale Research Letters</i> , 2016, 11, 344.	3.1	12
71	Temperature-boosted photocatalytic H <sub>2</sub> production and charge transfer kinetics on TiO <sub>2</sub> under UV and visible light. <i>Photochemical and Photobiological Sciences</i> , 2016, 15, 1247-1253.	1.6	23
72	Photoelectrochemical hydrogen production on silicon microwire arrays overlaid with ultrathin titanium nitride. <i>Journal of Materials Chemistry A</i> , 2016, 4, 14008-14016.	5.2	24

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73	ZnO rods rooted on manifold carbon nanofiber paper as a scalable photocatalyst platform: the effects of ZnO morphology. <i>RSC Advances</i> , 2016, 6, 85521-85528.	1.7	12
74	Effect of ZnO Electrodeposited on Carbon Film and Decorated with Metal Nanoparticles for Solar Hydrogen Production. <i>Journal of Materials Science and Technology</i> , 2016, 32, 1059-1065.	5.6	11
75	Harnessing and storing visible light using a heterojunction of WO <sub>3</sub> and CdS for sunlight-free catalysis. <i>Photochemical and Photobiological Sciences</i> , 2016, 15, 1006-1011.	1.6	13
76	Bowmanella dokdonensis sp. nov., a novel exoelectrogenic bacterium isolated from the seawater of Dokdo, Korea. <i>Antonie Van Leeuwenhoek</i> , 2016, 109, 907-914.	0.7	9
77	Optical resonance and charge transfer behavior of patterned WO <sub>3</sub> microdisc arrays. <i>Energy and Environmental Science</i> , 2016, 9, 3143-3150.	15.6	42
78	Trilayer CdS/carbon nanofiber (CNF) mat/Pt-TiO <sub>2</sub> composite structures for solar hydrogen production: Effects of CNF mat thickness. <i>Applied Catalysis B: Environmental</i> , 2016, 196, 216-222.	10.8	32
79	Photocatalytic degradation of organic dye using titanium dioxide modified with metal and non-metal deposition. <i>Materials Science in Semiconductor Processing</i> , 2016, 41, 209-218.	1.9	46
80	Photoinduced charge transfer processes in solar photocatalysis based on modified TiO <sub>2</sub> . <i>Energy and Environmental Science</i> , 2016, 9, 411-433.	15.6	494
81	Photocatalytic conversion of carbon dioxide to methane on TiO <sub>2</sub> /CdS in aqueous isopropanol solution. <i>Catalysis Today</i> , 2016, 266, 153-159.	2.2	48
82	Structural Evolution of Chemically-Driven RuO <sub>2</sub> Nanowires and 3-Dimensional Design for Photo-Catalytic Applications. <i>Scientific Reports</i> , 2015, 5, 11933.	1.6	19
83	Photoelectrochemical Performances of Hematite (Fe <sub>2</sub> O <sub>3</sub> ) Films Doped with Various Metals. <i>Bulletin of the Korean Chemical Society</i> , 2015, 36, 1487-1494.	1.0	19
84	Nanotextured Pillars of Electrospayed Bismuth Vanadate for Efficient Photoelectrochemical Water Splitting. <i>Langmuir</i> , 2015, 31, 3727-3737.	1.6	59
85	Artificial Photosynthesis of C <sub>1</sub> -C <sub>3</sub> Hydrocarbons from Water and CO <sub>2</sub> on Titanate Nanotubes Decorated with Nanoparticle Elemental Copper and CdS Quantum Dots. <i>Journal of Physical Chemistry A</i> , 2015, 119, 4658-4666.	1.1	105
86	Activation of Hematite Photoanodes for Solar Water Splitting: Effect of FTO Deformation. <i>Journal of Physical Chemistry C</i> , 2015, 119, 3810-3817.	1.5	108
87	TiO <sub>2</sub> Nanotube Array Photoelectrocatalyst and Ni-Sb-SnO <sub>2</sub> Electrocatalyst Bifacial Electrodes: A New Type of Bifunctional Hybrid Platform for Water Treatment. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 1907-1914.	4.0	61
88	Synthesis of Al-doped ZnO Nanorods via Microemulsion Method and Their Application as a CO Gas Sensor. <i>Journal of Materials Science and Technology</i> , 2015, 31, 639-644.	5.6	65
89	Photosynthesis of formate from CO <sub>2</sub> and water at 1% energy efficiency via copper iron oxide catalysis. <i>Energy and Environmental Science</i> , 2015, 8, 2638-2643.	15.6	204
90	Enhanced Photoelectrochemical Solar Water Splitting Using a Platinum-Decorated CIGS/CdS/ZnO Photocathode. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 21619-21625.	4.0	82

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91	CdS-loaded flexible carbon nanofiber mats as a platform for solar hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 136-145.	3.8	25
92	Solar conversion of seawater uranium (VI) using TiO <sub>2</sub> electrodes. <i>Applied Catalysis B: Environmental</i> , 2015, 163, 584-590.	10.8	87
93	Effects of inorganic oxidants on kinetics and mechanisms of WO <sub>3</sub> -mediated photocatalytic degradation. <i>Applied Catalysis B: Environmental</i> , 2015, 162, 515-523.	10.8	79
94	Sn-Coupled p-Si Nanowire Arrays for Solar Formate Production from CO <sub>2</sub> . <i>Advanced Energy Materials</i> , 2014, 4, 1301614.	10.2	96
95	Solar Hydrogen Production Coupled with the Degradation of a Dye Pollutant Using TiO <sub>2</sub> Modified with Platinum and Nafion. <i>International Journal of Photoenergy</i> , 2014, 2014, 1-9.	1.4	172
96	Visible light photocatalytic activities of nitrogen and platinum-doped TiO <sub>2</sub> : Synergistic effects of co-dopants. <i>Applied Catalysis B: Environmental</i> , 2014, 147, 642-650.	10.8	69
97	Shift of the Reactive Species in the Sb-SnO <sub>2</sub> -Electrocatalyzed Inactivation of <i>E. coli</i> and Degradation of Phenol: Effects of Nickel Doping and Electrolytes. <i>Environmental Science &amp; Technology</i> , 2014, 48, 2877-2884.	4.6	74
98	Shape-Dependent Charge Transfers in Crystalline ZnO Photocatalysts: Rods versus Plates. <i>Journal of Physical Chemistry C</i> , 2014, 118, 21331-21338.	1.5	43
99	Carbon-catalyzed dye-sensitization for solar hydrogen production. <i>Catalysis Today</i> , 2014, 230, 15-19.	2.2	13
100	Sunlight-harnessing and storing heterojunction TiO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> /WO <sub>3</sub> electrodes for night-time applications. <i>RSC Advances</i> , 2013, 3, 17551.	1.7	26
101	Electrolysis of urea and urine for solar hydrogen. <i>Catalysis Today</i> , 2013, 199, 2-7.	2.2	80
102	Characterization of Ga-doped ZnO Nanorods Synthesized via Microemulsion Method. <i>Journal of Materials Science and Technology</i> , 2013, 29, 39-43.	5.6	18
103	Lithium ion-inserted TiO <sub>2</sub> nanotube array photoelectrocatalysts. <i>Applied Catalysis B: Environmental</i> , 2013, 140-141, 233-240.	10.8	41
104	Carbon nanotubes as an auxiliary catalyst in heterojunction photocatalysis for solar hydrogen. <i>Applied Catalysis B: Environmental</i> , 2013, 142-143, 647-653.	10.8	35
105	Surface modification of TiO <sub>2</sub> photocatalyst for environmental applications. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2013, 15, 1-20.	5.6	858
106	Strategic Modification of BiVO <sub>4</sub> for Improving Photoelectrochemical Water Oxidation Performance. <i>Journal of Physical Chemistry C</i> , 2013, 117, 9104-9112.	1.5	191
107	Solar water oxidation using nickel-borate coupled BiVO <sub>4</sub> photoelectrodes. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 6499.	1.3	156
108	Evaluating the Catalytic Effects of Carbon Materials on the Photocatalytic Reduction and Oxidation Reactions of TiO <sub>2</sub> . <i>Bulletin of the Korean Chemical Society</i> , 2013, 34, 1137-1144.	1.0	22

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109	How and to what extent do carbon materials catalyze solar hydrogen production from water?. Applied Catalysis B: Environmental, 2012, 125, 530-537.	10.8	52
110	Titania nanofibers as a photo-antenna for dye-sensitized solar hydrogen. Photochemical and Photobiological Sciences, 2012, 11, 1437-1444.	1.6	40
111	Boosting the electrocatalytic activities of SnO <sub>2</sub> electrodes for remediation of aqueous pollutants by doping with various metals. Applied Catalysis B: Environmental, 2012, 111-112, 317-325.	10.8	111
112	Photo-chargeable and dischargeable TiO <sub>2</sub> and WO <sub>3</sub> heterojunction electrodes. Applied Catalysis B: Environmental, 2012, 115-116, 74-80.	10.8	69
113	Organic dye-sensitized TiO <sub>2</sub> as a versatile photocatalyst for solar hydrogen and environmental remediation. Applied Catalysis B: Environmental, 2012, 121-122, 206-213.	10.8	104
114	Photoelectrochemical performance of multi-layered BiOx@TiO <sub>2</sub> /Ti electrodes for degradation of phenol and production of molecular hydrogen in water. Journal of Hazardous Materials, 2012, 211-212, 47-54.	6.5	72
115	Reductive degradation of perfluoroalkyl compounds with aquated electrons generated from iodide photolysis at 254 nm. Photochemical and Photobiological Sciences, 2011, 10, 1945-1953.	1.6	76
116	Reversing CdS Preparation Order and Its Effects on Photocatalytic Hydrogen Production of CdS/Pt-TiO <sub>2</sub> Hybrids Under Visible Light. Journal of Physical Chemistry C, 2011, 115, 6141-6148.	1.5	126
117	Photoelectrochemical and Photocatalytic Behaviors of Hematite-Decorated Titania Nanotube Arrays: Energy Level Mismatch versus Surface Specific Reactivity. Journal of Physical Chemistry C, 2011, 115, 7134-7142.	1.5	66
118	Light-harvesting multi-walled carbon nanotubes and CdS hybrids: Application to photocatalytic hydrogen production from water. Energy and Environmental Science, 2011, 4, 685-694.	15.6	259
119	Preparation of ZnO nanorods by microemulsion synthesis and their application as a CO gas sensor. Sensors and Actuators B: Chemical, 2011, 160, 94-98.	4.0	75
120	Photocatalytic Comparison of TiO <sub>2</sub> Nanoparticles and Electrospun TiO <sub>2</sub> Nanofibers: Effects of Mesoporosity and Interparticle Charge Transfer. Journal of Physical Chemistry C, 2010, 114, 16475-16480.	1.5	330
121	Combinatorial doping of TiO <sub>2</sub> with platinum (Pt), chromium (Cr), vanadium (V), and nickel (Ni) to achieve enhanced photocatalytic activity with visible light irradiation. Journal of Materials Research, 2010, 25, 149-158.	1.2	69
122	Effects of TiO <sub>2</sub> surface fluorination on photocatalytic degradation of methylene blue and humic acid. Research on Chemical Intermediates, 2010, 36, 127-140.	1.3	43
123	Effects of electrolyte on the electrocatalytic activities of RuO <sub>2</sub> /Ti and Sb@SnO <sub>2</sub> /Ti anodes for water treatment. Applied Catalysis B: Environmental, 2010, 97, 135-141.	10.8	86
124	Effects of Single Metal-Ion Doping on the Visible-Light Photoreactivity of TiO <sub>2</sub> . Journal of Physical Chemistry C, 2010, 114, 783-792.	1.5	685
125	Sonochemical Degradation of Perfluorooctane Sulfonate (PFOS) and Perfluorooctanoate (PFOA) in Groundwater: Kinetic Effects of Matrix Inorganics. Environmental Science & Technology, 2010, 44, 445-450.	4.6	153
126	Sonochemical Degradation of Perfluorooctanesulfonate in Aqueous Film-Forming Foams. Environmental Science & Technology, 2010, 44, 432-438.	4.6	114



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127	Treatment technologies for aqueous perfluorooctanesulfonate (PFOS) and perfluorooctanoate (PFOA). <i>Frontiers of Environmental Science and Engineering in China</i> , 2009, 3, 129-151.	0.8	344
128	Photoactive component-loaded Nafion film as a platform of hydrogen generation: Alternative utilization of a classical sensitizing system. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2009, 203, 112-118.	2.0	21
129	Carbon-doped TiO <sub>2</sub> photocatalyst synthesized without using an external carbon precursor and the visible light activity. <i>Applied Catalysis B: Environmental</i> , 2009, 91, 355-361.	10.8	351
130	Reductive Defluorination of Aqueous Perfluorinated Alkyl Surfactants: Effects of Ionic Headgroup and Chain Length. <i>Journal of Physical Chemistry A</i> , 2009, 113, 690-696.	1.1	251
131	Electrochemical Water Splitting Coupled with Organic Compound Oxidation: The Role of Active Chlorine Species. <i>Journal of Physical Chemistry C</i> , 2009, 113, 7935-7945.	1.5	148
132	Solar-Powered Electrochemical Oxidation of Organic Compounds Coupled with the Cathodic Production of Molecular Hydrogen. <i>Journal of Physical Chemistry A</i> , 2008, 112, 7616-7626.	1.1	89
133	Effects of the preparation method of the ternary CdS/TiO <sub>2</sub> /Pt hybrid photocatalysts on visible light-induced hydrogen production. <i>Journal of Materials Chemistry</i> , 2008, 18, 2379.	6.7	370
134	Solar-Powered Production of Molecular Hydrogen from Water. <i>Journal of Physical Chemistry C</i> , 2008, 112, 885-889.	1.5	70
135	Kinetics and Mechanism of the Sonolytic Conversion of the Aqueous Perfluorinated Surfactants, Perfluorooctanoate (PFOA), and Perfluorooctane Sulfonate (PFOS) into Inorganic Products. <i>Journal of Physical Chemistry A</i> , 2008, 112, 4261-4270.	1.1	203
136	Sonochemical Degradation of Perfluorooctane Sulfonate (PFOS) and Perfluorooctanoate (PFOA) in Landfill Groundwater: Environmental Matrix Effects. <i>Environmental Science &amp; Technology</i> , 2008, 42, 8057-8063.	4.6	231
137	Effects of p- and d-block metal co-substitution on the electronic structure and physicochemical properties of InMO <sub>4</sub> (M=Nb and Ta) semiconductors. <i>Chemical Physics Letters</i> , 2007, 434, 251-255.	1.2	16
138	Substitution effect of pentavalent bismuth ions on the electronic structure and physicochemical properties of perovskite-structured Ba(In <sub>0.5</sub> Ta <sub>0.5</sub> <sup>x</sup> Bix)O <sub>3</sub> semiconductors. <i>Materials Research Bulletin</i> , 2007, 42, 1914-1920.	2.7	14
139	Effect of the Anchoring Group in Ru <sup>II</sup> -Bipyridyl Sensitizers on the Photoelectrochemical Behavior of Dye-Sensitized TiO <sub>2</sub> Electrodes: Carboxylate versus Phosphonate Linkages. <i>Journal of Physical Chemistry B</i> , 2006, 110, 8740-8749.	1.2	188
140	Visible-Light-Sensitized Production of Hydrogen Using Perfluorosulfonate Polymer-Coated TiO <sub>2</sub> Nanoparticles: An Alternative Approach to Sensitizer Anchoring. <i>Langmuir</i> , 2006, 22, 2906-2911.	1.6	82
141	Study of special cases where the enhanced photocatalytic activities of Pt/TiO <sub>2</sub> vanish under low light intensity. <i>Catalysis Today</i> , 2006, 111, 259-265.	2.2	39
142	A Composite Photocatalyst of CdS Nanoparticles Deposited on TiO <sub>2</sub> Nanosheets. <i>Journal of Nanoscience and Nanotechnology</i> , 2006, 6, 3642-3646.	0.9	42
143	Photocatalytic conversion of benzene to phenol using modified TiO <sub>2</sub> and polyoxometalates. <i>Catalysis Today</i> , 2005, 101, 291-297.	2.2	152
144	Photocatalytic Reactivities of Nafion-Coated TiO <sub>2</sub> for the Degradation of Charged Organic Compounds under UV or Visible Light. <i>Journal of Physical Chemistry B</i> , 2005, 109, 11667-11674.	1.2	187

#	ARTICLE	IF	CITATIONS
145	Novel complexation between ferric ions and nonionic surfactants (Brij) and its visible light activity for CCl <sub>4</sub> degradation in aqueous micellar solutions. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2004, 165, 43-50.	2.0	14
146	Effects of TiO <sub>2</sub> Surface Fluorination on Photocatalytic Reactions and Photoelectrochemical Behaviors. <i>Journal of Physical Chemistry B</i> , 2004, 108, 4086-4093.	1.2	591
147	Comparative Study of Homogeneous and Heterogeneous Photocatalytic Redox Reactions: PW12O <sub>40</sub> -vs TiO <sub>2</sub> . <i>Journal of Physical Chemistry B</i> , 2004, 108, 6402-6411.	1.2	120
148	Visible light and Fe(III)-mediated degradation of Acid Orange 7 in the absence of H <sub>2</sub> O <sub>2</sub> . <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2003, 159, 241-247.	2.0	184
149	New nanoporous carbon materials with high adsorption capacity and rapid adsorption kinetics for removing humic acids. <i>Microporous and Mesoporous Materials</i> , 2003, 58, 131-135.	2.2	108
150	Photoelectrochemical Investigation on Electron Transfer Mediating Behaviors of Polyoxometalate in UV-Illuminated Suspensions of TiO <sub>2</sub> and Pt/TiO <sub>2</sub> . <i>Journal of Physical Chemistry B</i> , 2003, 107, 3885-3890.	1.2	197
151	Photoelectrochemical Approach for Metal Corrosion Prevention Using a Semiconductor Photoanode. <i>Journal of Physical Chemistry B</i> , 2002, 106, 4775-4781.	1.2	152
152	Selective Photocatalytic Oxidation of NH <sub>3</sub> to N <sub>2</sub> on Platinized TiO <sub>2</sub> in Water. <i>Environmental Science &amp; Technology</i> , 2002, 36, 5462-5468.	4.6	168
153	A novel photoelectrochemical method of metal corrosion prevention using a TiO <sub>2</sub> solar panel. <i>Chemical Communications</i> , 2001, , 281-282.	2.2	51
154	Correlations among defect type, photoconductivity and photoreactivity of doped TiO <sub>2</sub> . <i>Korean Journal of Chemical Engineering</i> , 2001, 18, 873-878.	1.2	4
155	Investigation on TiO <sub>2</sub> -coated optical fibers for gas-phase photocatalytic oxidation of acetone. <i>Applied Catalysis B: Environmental</i> , 2001, 31, 209-220.	10.8	206