List of Publications by Year in descending order

113 papers	10,968 citations	36203 51 h-index	30010 103 g-index
114 all docs	114 docs citations	114 times ranked	12291 citing authors

#	Article	IF	Citations
1	Solar remediation of wastewater and saline water with concurrent production of value-added chemicals. Journal of Environmental Chemical Engineering, 2022, 10, 106919.	3.3	9
2	Catalytic activity of photocharged binary TiO2 and WO3 membrane filters: Effect of AlO interlayer on direct vs. mediated electron transfers. Chemical Engineering Journal, 2022, 437, 135319.	6.6	6
3	Synergistic conversion of CO2 into C1 and C2 gases using hybrid in-doped TiO2 and g-C3N4 photocatalysts. Chemical Engineering Journal, 2022, 437, 135388.	6.6	17
4	High-Valent Iron Redox-Mediated Photoelectrochemical Water Oxidation. ACS Energy Letters, 2022, 7, 59-66.	8.8	10
5	Electrocatalytic arsenite oxidation using iron oxyhydroxide polymorphs (Î±-, Î²-, and Î³-FeOOH) in aqueous bicarbonate solution. Applied Catalysis B: Environmental, 2021, 283, 119608.	10.8	40
6	Electrocatalytic activities of electrochemically reduced tubular titania arrays loaded with cobalt ions in flow-through processes. Chemical Engineering Journal, 2021, 404, 126410.	6.6	7
7	Reduced titania nanorods and Niâ€“Moâ€“S catalysts for photoelectrocatalytic water treatment and hydrogen production coupled with desalination. Applied Catalysis B: Environmental, 2021, 284, 119745.	10.8	23
8	Electrocatalytic activity of metal-doped SnO2 for the decomposition of aqueous contaminants: Ta-SnO vs. Sb-SnO. Chemical Engineering Journal, 2021, 409, 128175.	6.6	20
9	The effect of nanostructure dimensionality on the photoelectrochemical properties of derived TiO2 films. Electrochimica Acta, 2021, 373, 137900.	2.6	9
10	Standalone photoconversion of CO2 using Ti and TiOx-sandwiched heterojunction photocatalyst of CuO and CuFeO2 films. Applied Catalysis B: Environmental, 2021, 288, 119985.	10.8	14
11	Ionâ€Enhanced Conversion of CO₂ into Formate on Porous Dendritic Bismuth Electrodes with High Efficiency and Durability. ChemSusChem, 2020, 13, 698-706.	3.6	42
12	Electrocatalytic arsenite oxidation in bicarbonate solutions combined with CO2 reduction to formate. Applied Catalysis B: Environmental, 2020, 265, 118607.	10.8	31
13	Effect of Fe/N-doped carbon nanotube (CNT) wall thickness on CO2 conversion: A DFT study. Sustainable Materials and Technologies, 2020, 26, e00224.	1.7	3
14	Theoretical insight into effect of cationâ€“anion pairs on CO2 reduction on bismuth electrocatalysts. Applied Surface Science, 2020, 532, 147459.	3.1	18
15	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. Environmental Science & Technology, 2020, 54, 9601-9608.	4.6	17
16	Facile Electrochemical Synthesis of Highly Efficient Copperâ€“Cobalt Oxide Nanostructures for Oxygen Evolution Reactions. Journal of the Electrochemical Society, 2020, 167, 026510.	1.3	14
17	Ag(I) ions working as a hole-transfer mediator in photoelectrocatalytic water oxidation on WO3 film. Nature Communications, 2020, 11, 967.	5.8	66
18	High-Efficiency Solar Desalination Accompanying Electrocatalytic Conversions of Desalted Chloride and Captured Carbon Dioxide. ACS Sustainable Chemistry and Engineering, 2019, 7, 15320-15328.	3.2	32

#	Article	IF	Citations
19	Synthesis of Aliphatic Acids from CO₂ and Water at Efficiencies Close to the Photosynthesis Limit Using Mixed Copper and Iron Oxide Films. ACS Energy Letters, 2019, 4, 2075-2080.	8.8	24
20	Computational density functional theory study on the selective conversion of CO2 to formate on homogeneously and heterogeneously mixed CuFeO2 and CuO surfaces. Catalysis Today, 2019, 335, 345-353.	2.2	20
21	Solar hydrogen peroxide production on carbon nanotubes wired to titania nanorod arrays catalyzing As(III) oxidation. Applied Catalysis B: Environmental, 2019, 252, 55-61.	10.8	19
22	Electrocatalytic water treatment using carbon nanotube filters modified with metal oxides. Environmental Science and Pollution Research, 2019, 26, 1036-1043.	2.7	22
23	Effects of electrochemical synthetic conditions on surface property and photocatalytic performance of copper and iron-mixed p-type oxide electrodes. Journal of Materials Science and Technology, 2018, 34, 1503-1510.	5.6	12
24	Sunlight-charged heterojunction TiO2 and WO3 particle-embedded inorganic membranes for night-time environmental applications. Photochemical and Photobiological Sciences, 2018, 17, 491-498.	1.6	6
25	Photoelectrochemical hydrogen production using CdS nanoparticles photodeposited onto Li-ion-inserted titania nanotube arrays. Catalysis Today, 2018, 303, 289-295.	2.2	11
26	High efficiency solar chemical conversion using electrochemically disordered titania nanotube arrays transplanted onto transparent conductive oxide electrodes. Applied Catalysis B: Environmental, 2018, 226, 194-201.	10.8	21
27	Homogeneous photoconversion of seawater uranium using copper and iron mixed-oxide semiconductor electrodes. Applied Catalysis B: Environmental, 2017, 207, 35-41.	10.8	27
28	Effect of liquid phase plasma on photocatalysis of water for hydrogen evolution. International Journal of Hydrogen Energy, 2017, 42, 17386-17393.	3.8	12
29	Effect of shape-driven intrinsic surface defects on photocatalytic activities of titanium dioxide in environmental application. Applied Surface Science, 2017, 423, 71-77.	3.1	7
30	Highly efficient hydrogen production using p-Si wire arrays and NiMoZn heterojunction photocathodes. Applied Catalysis B: Environmental, 2017, 217, 615-621.	10.8	17
31	Facilitating hole transfer on electrochemically synthesized p-type CuAlO₂ films for efficient solar hydrogen production from water. Journal of Materials Chemistry A, 2017, 5, 10165-10172.	5.2	40
32	Enhancement of Hydrogen Evolution from Water Photocatalysis Using Liquid Phase Plasma on Metal Oxide-Loaded Photocatalysts. ACS Sustainable Chemistry and Engineering, 2017, 5, 3659-3666.	3.2	32
33	A facile synthesis of CuFeO₂ and CuO composite photocatalyst films for the production of liquid formate from CO₂ and water over a month. Journal of Materials Chemistry A, 2017, 5, 2123-2131.	5.2	73
34	Mo-doped BiVO4 nanotextured pillars as efficient photoanodes for solar water splitting. Journal of Alloys and Compounds, 2017, 726, 1138-1146.	2.8	23
35	Template-engineered epitaxial BiVO₄ photoanodes for efficient solar water splitting. Journal of Materials Chemistry A, 2017, 5, 18831-18838.	5.2	42
36	Ultra-efficient and durable photoelectrochemical water oxidation using elaborately designed hematite nanorod arrays. Nano Energy, 2017, 39, 211-218.	8.2	171

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37	Platinum-decorated Cu(InGa)Se2/CdS photocathodes: Optimization of Pt electrodeposition time and pH level. Journal of Alloys and Compounds, 2017, 692, 294-300.	2.8	5
38	Photocatalytic H₂ production on trititanate nanotubes coupled with CdS and platinum nanoparticles under visible light: revisiting H₂ production and material durability. Faraday Discussions, 2017, 198, 419-431.	1.6	12
39	ZnO nanostructure electrodeposited on flexible conductive fabric: A flexible photo-sensor. Sensors and Actuators B: Chemical, 2017, 240, 1106-1113.	4.0	25
40	Dual modification of hematite photoanode by Sn-doping and Nb2O5 layer for water oxidation. Applied Catalysis B: Environmental, 2017, 201, 591-599.	10.8	47
41	Stand-alone photoconversion of carbon dioxide on copper oxide wire arrays powered by tungsten trioxide/dye-sensitized solar cell dual absorbers. Nano Energy, 2016, 25, 51-59.	8.2	58
42	Temperature-boosted photocatalytic H2 production and charge transfer kinetics on TiO2 under UV and visible light. Photochemical and Photobiological Sciences, 2016, 15, 1247-1253.	1.6	23
43	Photoelectrochemical hydrogen production on silicon microwire arrays overlaid with ultrathin titanium nitride. Journal of Materials Chemistry A, 2016, 4, 14008-14016.	5.2	24
44	ZnO rods rooted on manifold carbon nanofiber paper as a scalable photocatalyst platform: the effects of ZnO morphology. RSC Advances, 2016, 6, 85521-85528.	1.7	12
45	Effect of ZnO Electrodeposited on Carbon Film and Decorated with Metal Nanoparticles for Solar Hydrogen Production. Journal of Materials Science and Technology, 2016, 32, 1059-1065.	5.6	11
46	Harnessing and storing visible light using a heterojunction of WO3 and CdS for sunlight-free catalysis. Photochemical and Photobiological Sciences, 2016, 15, 1006-1011.	1.6	13
47	Optical resonance and charge transfer behavior of patterned WO₃ microdisc arrays. Energy and Environmental Science, 2016, 9, 3143-3150.	15.6	42
48	Trilayer CdS/carbon nanofiber (CNF) mat/Pt-TiO2 composite structures for solar hydrogen production: Effects of CNF mat thickness. Applied Catalysis B: Environmental, 2016, 196, 216-222.	10.8	32
49	Photoinduced charge transfer processes in solar photocatalysis based on modified TiO₂. Energy and Environmental Science, 2016, 9, 411-433.	15.6	494
50	Photocatalytic conversion of carbon dioxide to methane on TiO2/CdS in aqueous isopropanol solution. Catalysis Today, 2016, 266, 153-159.	2.2	48
51	Artificial Photosynthesis of C1â€“C3 Hydrocarbons from Water and CO₂ on Titanate Nanotubes Decorated with Nanoparticle Elemental Copper and CdS Quantum Dots. Journal of Physical Chemistry A, 2015, 119, 4658-4666.	1.1	105
52	TiO₂ Nanotube Array Photoelectrocatalyst and Niâ€“Sbâ€“SnO₂ Electrocatalyst Bifacial Electrodes: A New Type of Bifunctional Hybrid Platform for Water Treatment. ACS Applied Materials & Interfaces, 2015, 7, 1907-1914.	4.0	61
53	Photosynthesis of formate from CO₂ and water at 1% energy efficiency via copper iron oxide catalysis. Energy and Environmental Science, 2015, 8, 2638-2643.	15.6	204
54	CdS-loaded flexible carbon nanofiber mats as a platform for solar hydrogen production. International Journal of Hydrogen Energy, 2015, 40, 136-145.	3.8	25

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55	Solar conversion of seawater uranium (VI) using TiO2 electrodes. Applied Catalysis B: Environmental, 2015, 163, 584-590.	10.8	87
56	Effects of inorganic oxidants on kinetics and mechanisms of WO 3 -mediated photocatalytic degradation. Applied Catalysis B: Environmental, 2015, 162, 515-523.	10.8	79
57	Snâ€Coupled pâ€Si Nanowire Arrays for Solar Formate Production from CO₂. Advanced Energy Materials, 2014, 4, 1301614.	10.2	96
58	Solar Hydrogen Production Coupled with the Degradation of a Dye Pollutant Using TiO₂Modified with Platinum and Nafion. International Journal of Photoenergy, 2014, 2014, 1-9.	1.4	172
59	Visible light photocatalytic activities of nitrogen and platinum-doped TiO2: Synergistic effects of co-dopants. Applied Catalysis B: Environmental, 2014, 147, 642-650.	10.8	69
60	Shift of the Reactive Species in the Sbâ€“SnO₂-Electrocatalyzed Inactivation of E. coli and Degradation of Phenol: Effects of Nickel Doping and Electrolytes. Environmental Science & Technology, 2014, 48, 2877-2884.	4.6	74
61	Shape-Dependent Charge Transfers in Crystalline ZnO Photocatalysts: Rods versus Plates. Journal of Physical Chemistry C, 2014, 118, 21331-21338.	1.5	43
62	Carbon-catalyzed dye-sensitization for solar hydrogen production. Catalysis Today, 2014, 230, 15-19.	2.2	13
63	Strategic Design of Heterojunction CdS Photocatalysts for Solar Hydrogen. Nanostructure Science and Technology, 2014, , 1-22.	0.1	3
64	SWNTs-catalyzed solar hydrogen production. Rapid Communication in Photoscience, 2014, 3, 56-58.	0.1	2
65	Sunlight-harnessing and storing heterojunction TiO2/Al2O3/WO3 electrodes for night-time applications. RSC Advances, 2013, 3, 17551.	1.7	26
66	Electrolysis of urea and urine for solar hydrogen. Catalysis Today, 2013, 199, 2-7.	2.2	80
67	Lithium ion-inserted TiO2 nanotube array photoelectrocatalysts. Applied Catalysis B: Environmental, 2013, 140-141, 233-240.	10.8	41
68	Carbon nanotubes as an auxiliary catalyst in heterojunction photocatalysis for solar hydrogen. Applied Catalysis B: Environmental, 2013, 142-143, 647-653.	10.8	35
69	Surface modification of TiO2 photocatalyst for environmental applications. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2013, 15, 1-20.	5.6	858
70	Strategic Modification of BiVO₄ for Improving Photoelectrochemical Water Oxidation Performance. Journal of Physical Chemistry C, 2013, 117, 9104-9112.	1.5	191
71	Solar water oxidation using nickel-borate coupled BiVO4 photoelectrodes. Physical Chemistry Chemical Physics, 2013, 15, 6499.	1.3	156
72	Evaluating the Catalytic Effects of Carbon Materials on the Photocatalytic Reduction and Oxidation Reactions of TiO₂. Bulletin of the Korean Chemical Society, 2013, 34, 1137-1144.	1.0	22

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73	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
74	Titania nanofibers as a photo-antenna for dye-sensitized solar hydrogen. Photochemical and Photobiological Sciences, 2012, 11, 1437-1444.	1.6	40
75	Photo-chargeable and dischargeable TiO2 and WO3 heterojunction electrodes. Applied Catalysis B: Environmental, 2012, 115-116, 74-80.	10.8	69
76	Organic dye-sensitized TiO2 as a versatile photocatalyst for solar hydrogen and environmental remediation. Applied Catalysis B: Environmental, 2012, 121-122, 206-213.	10.8	104
77	Photoelectrochemical performance of multi-layered BiOxâ€“TiO2/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
78	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
79	Reversing CdS Preparation Order and Its Effects on Photocatalytic Hydrogen Production of CdS/Pt-TiO₂ Hybrids Under Visible Light. Journal of Physical Chemistry C, 2011, 115, 6141-6148.	1.5	126
80	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
81	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
82	Photocatalytic Comparison of TiO₂ Nanoparticles and Electrospun TiO₂ Nanofibers: Effects of Mesoporosity and Interparticle Charge Transfer. Journal of Physical Chemistry C, 2010, 114, 16475-16480.	1.5	330
83	Combinatorial doping of TiO₂ 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
84	Effects of TiO2 surface fluorination on photocatalytic degradation of methylene blue and humic acid. Research on Chemical Intermediates, 2010, 36, 127-140.	1.3	43
85	Effects of Single Metal-Ion Doping on the Visible-Light Photoreactivity of TiO₂. Journal of Physical Chemistry C, 2010, 114, 783-792.	1.5	685
86	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
87	Sonochemical Degradation of Perfluorooctanesulfonate in Aqueous Film-Forming Foams. Environmental Science & Technology, 2010, 44, 432-438.	4.6	114
88	Treatment technologies for aqueous perfluorooctanesulfonate (PFOS) and perfluorooctanoate (PFOA). Frontiers of Environmental Science and Engineering in China, 2009, 3, 129-151.	0.8	344
89	Photoactive component-loaded Nafion film as a platform of hydrogen generation: Alternative utilization of a classical sensitizing system. Journal of Photochemistry and Photobiology A: Chemistry, 2009, 203, 112-118.	2.0	21
90	Carbon-doped TiO2 photocatalyst synthesized without using an external carbon precursor and the visible light activity. Applied Catalysis B: Environmental, 2009, 91, 355-361.	10.8	351

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91	Reductive Defluorination of Aqueous Perfluorinated Alkyl Surfactants: Effects of Ionic Headgroup and Chain Length. Journal of Physical Chemistry A, 2009, 113, 690-696.	1.1	251
92	Electrochemical Water Splitting Coupled with Organic Compound Oxidation: The Role of Active Chlorine Species. Journal of Physical Chemistry C, 2009, 113, 7935-7945.	1.5	148
93	Solar-Powered Electrochemical Oxidation of Organic Compounds Coupled with the Cathodic Production of Molecular Hydrogen. Journal of Physical Chemistry A, 2008, 112, 7616-7626.	1.1	89
94	Effects of the preparation method of the ternary CdS/TiO2/Pt hybrid photocatalysts on visible light-induced hydrogen production. Journal of Materials Chemistry, 2008, 18, 2379.	6.7	370
95	Solar-Powered Production of Molecular Hydrogen from Water. Journal of Physical Chemistry C, 2008, 112, 885-889.	1.5	70
96	Kinetics and Mechanism of the Sonolytic Conversion of the Aqueous Perfluorinated Surfactants, Perfluorooctanoate (PFOA), and Perfluorooctane Sulfonate (PFOS) into Inorganic Products. Journal of Physical Chemistry A, 2008, 112, 4261-4270.	1.1	203
97	Sonochemical Degradation of Perfluorooctane Sulfonate (PFOS) and Perfluorooctanoate (PFOA) in Landfill Groundwater: Environmental Matrix Effects. Environmental Science & Technology, 2008, 42, 8057-8063.	4.6	231
98	Substitution effect of pentavalent bismuth ions on the electronic structure and physicochemical properties of perovskite-structured Ba(In0.5Ta0.5â^'xBix)O3 semiconductors. Materials Research Bulletin, 2007, 42, 1914-1920.	2.7	14
99	Effect of the Anchoring Group in Ruâ^'Bipyridyl Sensitizers on the Photoelectrochemical Behavior of Dye-Sensitized TiO2Electrodes:Â Carboxylate versus Phosphonate Linkages. Journal of Physical Chemistry B, 2006, 110, 8740-8749.	1.2	188
100	Visible-Light-Sensitized Production of Hydrogen Using Perfluorosulfonate Polymer-Coated TiO2Nanoparticles:Â An Alternative Approach to Sensitizer Anchoring. Langmuir, 2006, 22, 2906-2911.	1.6	82
101	Study of special cases where the enhanced photocatalytic activities of Pt/TiO2 vanish under low light intensity. Catalysis Today, 2006, 111, 259-265.	2.2	39
102	A Composite Photocatalyst of CdS Nanoparticles Deposited on TiO2 Nanosheets. Journal of Nanoscience and Nanotechnology, 2006, 6, 3642-3646.	0.9	42
103	Photocatalytic conversion of benzene to phenol using modified TiO2 and polyoxometalates. Catalysis Today, 2005, 101, 291-297.	2.2	152
104	Photocatalytic Reactivities of Nafion-Coated TiO2 for the Degradation of Charged Organic Compounds under UV or Visible Light. Journal of Physical Chemistry B, 2005, 109, 11667-11674.	1.2	187
105	Novel complexation between ferric ions and nonionic surfactants (Brij) and its visible light activity for CCl4 degradation in aqueous micellar solutions. Journal of Photochemistry and Photobiology A: Chemistry, 2004, 165, 43-50.	2.0	14
106	Effects of TiO2 Surface Fluorination on Photocatalytic Reactions and Photoelectrochemical Behaviors. Journal of Physical Chemistry B, 2004, 108, 4086-4093.	1.2	591
107	Comparative Study of Homogeneous and Heterogeneous Photocatalytic Redox Reactions:Â PW12O403-vs TiO2. Journal of Physical Chemistry B, 2004, 108, 6402-6411.	1.2	120
108	Visible light and Fe(III)-mediated degradation of Acid Orange 7 in the absence of H2O2. Journal of Photochemistry and Photobiology A: Chemistry, 2003, 159, 241-247.	2.0	184

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109	Photoelectrochemical Investigation on Electron Transfer Mediating Behaviors of Polyoxometalate in UV-Illuminated Suspensions of TiO2and Pt/TiO2. Journal of Physical Chemistry B, 2003, 107, 3885-3890.	1.2	197
110	Photoelectrochemical Approach for Metal Corrosion Prevention Using a Semiconductor Photoanode. Journal of Physical Chemistry B, 2002, 106, 4775-4781.	1.2	152
111	Selective Photocatalytic Oxidation of NH3to N2on Platinized TiO2in Water. Environmental Science & Technology, 2002, 36, 5462-5468.	4.6	168
112	A novel photoelectrochemical method of metal corrosion prevention using a TiO2 solar panel. Chemical Communications, 2001, , 281-282.	2.2	51
113	Investigation on TiO2-coated optical fibers for gas-phase photocatalytic oxidation of acetone. Applied Catalysis B: Environmental, 2001, 31, 209-220.	10.8	206