

Heterojunction BiVO<sub>4</sub>/WO<sub>3</sub> electrodes for enhanced ph

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Citation Report

#	ARTICLE	IF	CITATIONS
10	Cobalt-phosphate complexes catalyze the photoelectrochemical water oxidation of BiVO <sub>4</sub> electrodes. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 21392.	1.3	164
11	Near-Complete Suppression of Surface Recombination in Solar Photoelectrolysis by Co-Pi Catalyst-Modified W:BiVO <sub>4</sub> . <i>Journal of the American Chemical Society</i> , 2011, 133, 18370-18377.	6.6	951
12	Solar hydrogen generation from seawater with a modified BiVO <sub>4</sub> photoanode. <i>Energy and Environmental Science</i> , 2011, 4, 4046.	15.6	564
13	Surface modification of TiO <sub>2</sub> with metal oxide nanoclusters: a route to composite photocatalytic materials. <i>Chemical Communications</i> , 2011, 47, 8617.	2.2	66
14	Combination of visible-light responsive heterogeneous and homogeneous photocatalysts for water oxidation. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 17960.	1.3	8
15	A novel tungsten trioxide (WO <sub>3</sub> )/ITO porous nanocomposite for enhanced photo-catalytic water splitting. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 19553.	1.3	36
16	Synthesis of novel visible light responding vanadate/TiO <sub>2</sub> heterostructure photocatalysts for application of organic pollutants. <i>Chemical Engineering Journal</i> , 2011, 175, 76-83.	6.6	58
17	A perspective on solar-driven water splitting with all-oxide hetero-nanostructures. <i>Energy and Environmental Science</i> , 2011, 4, 3889.	15.6	219
18	Hydrophilicity Control of Visible-Light Hydrogen Evolution and Dynamics of the Charge-Separated State in Dye/TiO <sub>2</sub> /Pt Hybrid Systems. <i>Chemistry - A European Journal</i> , 2012, 18, 15368-15381.	1.7	50
19	Photoelectrochemical cells with tungsten trioxide/Mo-doped BiVO <sub>4</sub> bilayers. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 11119.	1.3	107
20	Effects of Surface Electrochemical Pretreatment on the Photoelectrochemical Performance of Mo-Doped BiVO <sub>4</sub> . <i>Journal of Physical Chemistry C</i> , 2012, 116, 5076-5081.	1.5	172
21	A new electrochemical synthesis route for a BiOI electrode and its conversion to a highly efficient porous BiVO <sub>4</sub> photoanode for solar water oxidation. <i>Energy and Environmental Science</i> , 2012, 5, 8553.	15.6	334
22	Nature and Light Dependence of Bulk Recombination in Co-Pi-Catalyzed BiVO <sub>4</sub> Photoanodes. <i>Journal of Physical Chemistry C</i> , 2012, 116, 9398-9404.	1.5	503
23	Cu <sub>2</sub> O   NiO <sub>x</sub> nanocomposite as an inexpensive photocathode in photoelectrochemical water splitting. <i>Chemical Science</i> , 2012, 3, 3482.	3.7	240
24	Photocatalytic H <sub>2</sub> and O <sub>2</sub> evolution over tungsten oxide dispersed on silica. <i>Journal of Catalysis</i> , 2012, 293, 61-66.	3.1	51
25	Water Oxidation on a CuWO <sub>4</sub> -WO <sub>3</sub> Composite Electrode in the Presence of [Fe(CN) <sub>6</sub> ] <sup>3-</sup> : Toward Solar Z-Scheme Water Splitting at Zero Bias. <i>Journal of Physical Chemistry C</i> , 2012, 116, 3200-3205.	1.5	86
27	A Facile Band Alignment of Polymeric Carbon Nitride Semiconductors to Construct Isotype Heterojunctions. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 10145-10149.	7.2	632
28	Photocatalytic and Photoelectrochemical Water Oxidation over Metal-Doped Monoclinic BiVO <sub>4</sub> Photoanodes. <i>ChemSusChem</i> , 2012, 5, 1926-1934.	3.6	311

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29	Catalytic water oxidation at single metal sites. <i>Energy and Environmental Science</i> , 2012, 5, 8134.	15.6	226
30	Molecular Metal Oxide Cluster-Surface Modified Titanium(IV) Dioxide Photocatalysts. <i>Australian Journal of Chemistry</i> , 2012, 65, 624.	0.5	36
31	In situ preparation of novel p-n junction photocatalyst BiOI/(BiO) <sub>2</sub> CO <sub>3</sub> with enhanced visible light photocatalytic activity. <i>Journal of Hazardous Materials</i> , 2012, 239-240, 316-324.	6.5	204
32	Nanostructure-based WO <sub>3</sub> photoanodes for photoelectrochemical water splitting. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 7894.	1.3	409
33	First-Principles Prediction of New Photocatalyst Materials with Visible-Light Absorption and Improved Charge Separation: Surface Modification of Rutile TiO <sub>2</sub> with Nanoclusters of MgO and Ga <sub>2</sub> O <sub>3</sub> . <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 5863-5871.	4.0	41
34	Efficient and Stable Photo-Oxidation of Water by a Bismuth Vanadate Photoanode Coupled with an Iron Oxyhydroxide Oxygen Evolution Catalyst. <i>Journal of the American Chemical Society</i> , 2012, 134, 2186-2192.	6.6	743
35	Highly efficient photoelectrochemical water splitting using a thin film photoanode of BiVO <sub>4</sub> /SnO <sub>2</sub> /WO <sub>3</sub> multi-composite in a carbonate electrolyte. <i>Chemical Communications</i> , 2012, 48, 3833.	2.2	237
36	Transforming Anodized WO <sub>3</sub> Films into Visible-Light-Active Bi <sub>2</sub> WO <sub>6</sub> Photoelectrodes by Hydrothermal Treatment. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 913-918.	2.1	86
39	Phosphate Doping into Monoclinic BiVO <sub>4</sub> for Enhanced Photoelectrochemical Water Oxidation Activity. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 3147-3151.	7.2	435
40	Freestanding Tin Disulfide Single-Layers Realizing Efficient Visible-Light Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 8727-8731.	7.2	545
41	Heterojunction semiconductors: A strategy to develop efficient photocatalytic materials for visible light water splitting. <i>Catalysis Today</i> , 2012, 185, 270-277.	2.2	277
42	Thermodecomposition synthesis of WO <sub>3</sub> /H <sub>2</sub> WO <sub>4</sub> heterostructures with enhanced visible light photocatalytic properties. <i>Applied Catalysis B: Environmental</i> , 2012, 111-112, 288-296.	10.8	249
43	Synthesis of MWNTs/g-C <sub>3</sub> N <sub>4</sub> composite photocatalysts with efficient visible light photocatalytic hydrogen evolution activity. <i>Applied Catalysis B: Environmental</i> , 2012, 117-118, 268-274.	10.8	489
44	AgI <sub>3</sub> -modified AgI/TiO <sub>2</sub> composites for photocatalytic degradation of p-chlorophenol under visible light irradiation. <i>Journal of Colloid and Interface Science</i> , 2012, 378, 159-166.	5.0	41
45	Electrodeposited nanostructured WO <sub>3</sub> thin films for photoelectrochemical applications. <i>Electrochimica Acta</i> , 2012, 75, 371-380.	2.6	112
46	Synthetic trends for BiVO <sub>4</sub> photocatalysts: Molybdenum substitution vs. TiO <sub>2</sub> and SnO <sub>2</sub> heterojunctions. <i>Journal of Solid State Chemistry</i> , 2012, 189, 38-48.	1.4	25
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48	Improvement of visible light photocatalytic acetaldehyde decomposition of bismuth vanadate/silica nanocomposites by cocatalyst loading. <i>Journal of Hazardous Materials</i> , 2012, 211-212, 83-87.	6.5	26

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50	Facile synthesis of composite g-C <sub>3</sub> N <sub>4</sub> /WO <sub>3</sub> : a nontoxic photocatalyst with excellent catalytic activity under visible light. <i>RSC Advances</i> , 2013, 3, 13646.	1.7	95
51	Graphene and g-C <sub>3</sub> N <sub>4</sub> /Nanosheets Cowrapped Elemental Sulfur As a Novel Metal-Free Heterojunction Photocatalyst for Bacterial Inactivation under Visible-Light. <i>Environmental Science &amp; Technology</i> , 2013, 47, 8724-8732.	4.6	383
52	Efficient solar water splitting by enhanced charge separation in a bismuth vanadate-silicon tandem photoelectrode. <i>Nature Communications</i> , 2013, 4, 2195.	5.8	1,137
53	Nanoporous Graphitic Carbon Nitride with Enhanced Photocatalytic Performance. <i>Langmuir</i> , 2013, 29, 10566-10572.	1.6	284
54	Enhancement of visible-light-driven O <sub>2</sub> evolution from water oxidation on WO <sub>3</sub> treated with hydrogen. <i>Journal of Catalysis</i> , 2013, 307, 148-152.	3.1	118
55	Selective Deposition of Ag <sub>3</sub> PO <sub>4</sub> on Monoclinic BiVO <sub>4</sub> (040) for Highly Efficient Photocatalysis. <i>Small</i> , 2013, 9, 3951-3956.	5.2	215
56	Preparation and enhanced visible-light photocatalytic activity of graphitic carbon nitride/bismuth niobate heterojunctions. <i>Journal of Hazardous Materials</i> , 2013, 261, 235-245.	6.5	105
57	Single-crystalline, wormlike hematite photoanodes for efficient solar water splitting. <i>Scientific Reports</i> , 2013, 3, 2681.	1.6	580
58	Nanostructured Bi <sub>2</sub> S <sub>3</sub> /WO <sub>3</sub> heterojunction films exhibiting enhanced photoelectrochemical performance. <i>Journal of Materials Chemistry A</i> , 2013, 1, 12826.	5.2	134
59	Sol-gel synthesis of defect-pyrochlore structured CsTaWO <sub>6</sub> and the tribochemical influences on photocatalytic activity. <i>RSC Advances</i> , 2013, 3, 18908.	1.7	34
60	Promoting water photooxidation on transparent WO <sub>3</sub> thin films using an alumina overlayer. <i>Energy and Environmental Science</i> , 2013, 6, 3732.	15.6	134
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62	Reactive Sputtering of Bismuth Vanadate Photoanodes for Solar Water Splitting. <i>Journal of Physical Chemistry C</i> , 2013, 117, 21635-21642.	1.5	162
63	Surface tuning for oxide-based nanomaterials as efficient photocatalysts. <i>Chemical Society Reviews</i> , 2013, 42, 9509.	18.7	564
64	Rational and scalable fabrication of high-quality WO <sub>3</sub> /CdS core/shell nanowire arrays for photoanodes toward enhanced charge separation and transport under visible light. <i>Nanoscale</i> , 2013, 5, 11933.	2.8	66
65	Electrochemical reduction induced self-doping of Ti <sup>3+</sup> for efficient water splitting performance on TiO <sub>2</sub> based photoelectrodes. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 15637.	1.3	174
66	Lead oxide-modified TiO <sub>2</sub> photocatalyst: tuning light absorption and charge carrier separation by lead oxidation state. <i>Catalysis Science and Technology</i> , 2013, 3, 2000.	2.1	36

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68	To what extent do the nanostructured photoelectrodes perform better than their macrocrystalline counterparts?. <i>Catalysis Science and Technology</i> , 2013, 3, 1810.	2.1	6
69	SnO-nanocluster modified anatase TiO <sub>2</sub> photocatalyst: exploiting the Sn(ii) lone pair for a new photocatalyst material with visible light absorption and charge carrier separation. <i>Journal of Materials Chemistry A</i> , 2013, 1, 6670.	5.2	50
70	One step fabrication of C-doped BiVO <sub>4</sub> with hierarchical structures for a high-performance photocatalyst under visible light irradiation. <i>Journal of Materials Chemistry A</i> , 2013, 1, 8367.	5.2	142
71	A semiconductor/mixed ion and electron conductor heterojunction for elevated-temperature water splitting. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 15459.	1.3	18
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73	TiO <sub>2</sub> nanocluster modified-rutile TiO <sub>2</sub> photocatalyst: a first principles investigation. <i>Journal of Materials Chemistry A</i> , 2013, 1, 2515.	5.2	45
74	Formation energy and photoelectrochemical properties of BiVO <sub>4</sub> after doping at Bi <sup>3+</sup> or V <sup>5+</sup> sites with higher valence metal ions. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 1006-1013.	1.3	138
75	Microwave-assisted synthesis and photocatalytic properties of flower-like Bi <sub>2</sub> WO <sub>6</sub> and Bi <sub>2</sub> O <sub>3</sub> ∩Bi <sub>2</sub> WO <sub>6</sub> composite. <i>Journal of Colloid and Interface Science</i> , 2013, 394, 69-77.	5.0	66
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77	Enhanced visible light photocatalytic properties of AgNbO <sub>3</sub> /AgSbO <sub>3</sub> composites. <i>Materials Chemistry and Physics</i> , 2013, 139, 1009-1013.	2.0	18
78	Visible light driven overall water splitting using cocatalyst/BiVO <sub>4</sub> photoanode with minimized bias. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 4589.	1.3	194
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80	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
81	Branched TiO <sub>2</sub> /Si nanostructures for enhanced photoelectrochemical water splitting. <i>Nano Energy</i> , 2013, 2, 351-360.	8.2	96
82	Computational and Photoelectrochemical Study of Hydrogenated Bismuth Vanadate. <i>Journal of Physical Chemistry C</i> , 2013, 117, 10957-10964.	1.5	222
83	Surface Interrogation Scanning Electrochemical Microscopy (SI-SECM) of Photoelectrochemistry at a W/Mo-BiVO <sub>4</sub> Semiconductor Electrode: Quantification of Hydroxyl Radicals during Water Oxidation. <i>Journal of Physical Chemistry C</i> , 2013, 117, 12093-12102.	1.5	103
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86	Origin of the Visible-Light Response of Nickel(II) Oxide Cluster Surface Modified Titanium(IV) Dioxide. Journal of Physical Chemistry C, 2013, 117, 2709-2718.	1.5	68
87	Efficient photoelectrochemical water oxidation over cobalt-phosphate (Co-Pi) catalyst modified BiVO <sub>4</sub> /1D-WO <sub>3</sub> heterojunction electrodes. Physical Chemistry Chemical Physics, 2013, 15, 14723.	1.3	83
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89	Metal Doping of BiVO <sub>4</sub> by Composite Electrodeposition with Improved Photoelectrochemical Water Oxidation. Journal of Physical Chemistry C, 2013, 117, 23048-23056.	1.5	94
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95	CHAPTER 3. Structured Materials for Photoelectrochemical Water Splitting. RSC Energy and Environment Series, 0, , 52-82.	0.2	9
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99	Synthesis of BiVO <sub>4</sub> nanoflake array films for photoelectrochemical water oxidation. Journal of Materials Chemistry A, 2014, 2, 9371-9379.	5.2	139
100	Enhancement of photocatalytic activity for WO <sub>3</sub> by simple NaOH loading. Applied Catalysis A: General, 2014, 488, 183-188.	2.2	18
101	Formation of Mesoporous Heterostructured BiVO <sub>4</sub> /Bi <sub>2</sub> S <sub>3</sub> Hollow Discoids with Enhanced Photoactivity. Angewandte Chemie - International Edition, 2014, 53, 5917-5921.	7.2	269
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105	Heterostructured Er <sup>3+</sup> doped BiVO <sub>4</sub> with exceptional photocatalytic performance by cooperative electronic and luminescence sensitization mechanism. Applied Catalysis B: Environmental, 2014, 158-159, 242-249.	10.8	94
106	A fantastic graphitic carbon nitride (g-C <sub>3</sub> N <sub>4</sub> ) material: Electronic structure, photocatalytic and photoelectronic properties. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2014, 20, 33-50.	5.6	826
107	Nb <sub>2</sub> O <sub>5</sub> /TiO <sub>2</sub> heterojunctions: Synthesis strategy and photocatalytic activity. Applied Catalysis B: Environmental, 2014, 152-153, 280-288.	10.8	207
108	Effective signal-on photoelectrochemical immunoassay of subgroup J avian leukosis virus based on Bi <sub>2</sub> S <sub>3</sub> nanorods as photosensitizer and in situ generated ascorbic acid for electron donating. Biosensors and Bioelectronics, 2014, 54, 237-243.	5.3	55
109	All-Surface-Atomic-Metal Chalcogenide Sheets for High-Efficiency Visible-Light Photoelectrochemical Water Splitting. Advanced Energy Materials, 2014, 4, 1300611.	10.2	154
110	Hydrogen evolution from water using Ag <sub>x</sub> Cu <sub>1-x</sub> GaSe <sub>2</sub> photocathodes under visible light. Physical Chemistry Chemical Physics, 2014, 16, 6167.	1.3	66
111	WO <sub>3</sub> /BiVO <sub>4</sub> composite photoelectrode prepared by improved auto-combustion method for highly efficient water splitting. International Journal of Hydrogen Energy, 2014, 39, 2454-2461.	3.8	86
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116	Research Update: Strategies for efficient photoelectrochemical water splitting using metal oxide photoanodes. APL Materials, 2014, 2, .	2.2	120
117	Non-metal doping of transition metal oxides for visible-light photocatalysis. Catalysis Today, 2014, 225, 111-135.	2.2	311
118	PbO-Modified TiO <sub>2</sub> Thin Films: A Route to Visible Light Photocatalysts. Langmuir, 2014, 30, 624-630.	1.6	50
119	Efficient solar photoelectrolysis by nanoporous Mo:BiVO <sub>4</sub> through controlled electron transport. Physical Chemistry Chemical Physics, 2014, 16, 1121-1131.	1.3	164
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123	Dendritic TiO <sub>2</sub> /In <sub>2</sub> S <sub>3</sub> /AgInS <sub>2</sub> Trilaminar Core@Shell Branched Nanoarrays and the Enhanced Activity for Photoelectrochemical Water Splitting. <i>Small</i> , 2014, 10, 3153-3161.	5.2	76
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125	Synthesis and characterization of g-C <sub>3</sub> N <sub>4</sub> /BiVO <sub>4</sub> composite photocatalysts with improved visible-light-driven photocatalytic performance. <i>Journal of Sol-Gel Science and Technology</i> , 2014, 72, 443-454.	1.1	48
126	Construction of Teethlike Homojunction BiOCl (001) Nanosheets by Selective Etching and Its High Photocatalytic Activity. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 18423-18428.	4.0	77
127	A ternary Er <sup>3+</sup> -BiVO <sub>4</sub> /TiO <sub>2</sub> complex heterostructure with excellent photocatalytic performance. <i>RSC Advances</i> , 2014, 4, 6920.	1.7	40
128	The synergistic effect between WO <sub>3</sub> and g-C <sub>3</sub> N <sub>4</sub> towards efficient visible-light-driven photocatalytic performance. <i>New Journal of Chemistry</i> , 2014, 38, 5462-5469.	1.4	69
129	ZnO nanorods/ZnSe heteronanostructure arrays with a tunable microstructure of ZnSe shell for visible light photocatalysis. <i>Journal of Materials Chemistry A</i> , 2014, 2, 17502-17510.	5.2	43
130	Controlled in situ fabrication of Ag <sub>2</sub> O/AgO thin films by a dry chemical route at room temperature for hybrid solar cells. <i>Dalton Transactions</i> , 2014, 43, 11333-11338.	1.6	43
131	Cu <sub>2</sub> O nanoparticles decorated BiVO <sub>4</sub> as an effective visible-light-driven p-n heterojunction photocatalyst for methylene blue degradation. <i>Superlattices and Microstructures</i> , 2014, 74, 294-307.	1.4	66
132	Bio-Template Mediated In Situ Phosphate Transfer to Hierarchically Porous TiO <sub>2</sub> with Localized Phosphate Distribution and Enhanced Photoactivities. <i>Journal of Physical Chemistry C</i> , 2014, 118, 4607-4617.	1.5	15
133	A Novel Method to Synthesize Highly Photoactive Cu <sub>2</sub> O Microcrystalline Films for Use in Photoelectrochemical Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 480-486.	4.0	107
134	Plasmonic enhancement of the optical absorption and catalytic efficiency of BiVO <sub>4</sub> photoanodes decorated with Ag@SiO <sub>2</sub> core@shell nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 15272-15277.	1.3	61
135	Al-doped ZnO inverse opal networks as efficient electron collectors in BiVO <sub>4</sub> photoanodes for solar water oxidation. <i>Energy and Environmental Science</i> , 2014, 7, 1402-1408.	15.6	220
136	Towards highly efficient photoanodes: boosting sunlight-driven semiconductor nanomaterials for water oxidation. <i>Nanoscale</i> , 2014, 6, 7142.	2.8	173
137	Enhanced visible photocatalytic activity of a BiVO <sub>4</sub> @ <sup>12</sup> -AgVO <sub>3</sub> composite synthesized by an in situ growth method. <i>RSC Advances</i> , 2014, 4, 20058-20061.	1.7	30
138	High-efficiency water oxidation and energy storage utilizing various reversible redox mediators under visible light over surface-modified WO <sub>3</sub> . <i>RSC Advances</i> , 2014, 4, 8308-8316.	1.7	29
139	Synthesis and characterization of Bi(VO <sub>4</sub> ) <sub>1-x</sub> (PO <sub>4</sub> ) <sub>x</sub> nanofibers by electrospinning process with enhanced photocatalytic activity under visible light. <i>RSC Advances</i> , 2014, 4, 33695.	1.7	11



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362	Facile constructing novel 2D porous g-C <sub>3</sub> N <sub>4</sub> /BiOBr hybrid with enhanced visible-light-driven photocatalytic activity. <i>Separation and Purification Technology</i> , 2017, 178, 6-17.	3.9	122
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368	Enhanced photoelectrocatalytic performance for water oxidation by polyoxometalate molecular doping in BiVO <sub>4</sub> photoanodes. <i>Applied Catalysis A: General</i> , 2017, 536, 67-74.	2.2	37
369	Probing interfacial energetics and charge transfer kinetics in semiconductor nanocomposites: New insights into heterostructured TiO <sub>2</sub> /BiVO <sub>4</sub> photoanodes. <i>Nano Energy</i> , 2017, 34, 375-384.	8.2	36
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379	Fabrication of ternary g-C <sub>3</sub> N <sub>4</sub> /Al <sub>2</sub> O <sub>3</sub> /ZnO heterojunctions based on cascade electron transfer toward molecular oxygen activation. <i>Applied Catalysis B: Environmental</i> , 2017, 212, 115-128.	10.8	89
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390	Synthesis of WO <sub>3</sub> /BiVO <sub>4</sub> photoanode using a reaction of bismuth nitrate with peroxovanadate on WO <sub>3</sub> film for efficient photoelectrocatalytic water splitting and organic pollutant degradation. <i>Applied Catalysis B: Environmental</i> , 2017, 217, 21-29.	10.8	134
391	Photocatalytic performance of different exposed crystal facets of BiOCl. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2017, 6, 48-56.	3.2	55
392	Progress in Developing Metal Oxide Nanomaterials for Photoelectrochemical Water Splitting. <i>Advanced Energy Materials</i> , 2017, 7, 1700555.	10.2	455
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