

# Nanoporous BiVO<sub>4</sub> Photoanodes with Dual for Solar Water Splitting

Science

343, 990-994

DOI: [10.1126/science.1246913](https://doi.org/10.1126/science.1246913)

Citation Report

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24	This Week in Science. Science, 1990, 249, 603-603.	6.0	1
25	Nanoporous $\text{WO}_3$ $\text{Fe}_2\text{O}_3$ films; structural and photo-electrochemical characterization. Functional Materials Letters, 2014, 07, 1440006.	0.7	9
26	Catechol-Mediated Reversible Binding of Multivalent Cations in Eumelanin Half-Cells. Advanced Materials, 2014, 26, 6572-6579.	11.1	126
27	Enhancement of Solar Hydrogen Evolution from Water by Surface Modification with CdS and $\text{TiO}_2$ on Porous $\text{CuInS}_2$ Photocathodes Prepared by an Electrodeposition-Sulfurization Method. Angewandte Chemie - International Edition, 2014, 53, 11808-11812.	7.2	181
28	Forming Buried Junctions to Enhance the Photovoltage Generated by Cuprous Oxide in Aqueous Solutions. Angewandte Chemie - International Edition, 2014, 53, 13493-13497.	7.2	160
29	Enhanced Water Splitting at Thin Film Tungsten Trioxide Photoanodes Bearing Plasmonic Gold-Polyoxometalate Particles. Angewandte Chemie - International Edition, 2014, 53, 14196-14200.	7.2	65
30	Unraveling the Carrier Dynamics of $\text{BiVO}_4$ : A Femtosecond to Microsecond Transient Absorption Study. Journal of Physical Chemistry C, 2014, 118, 27793-27800.	1.5	142
31	Enhanced Activity of $\text{BiVO}_4$ Powdered Photocatalyst Under Visible Light Irradiation by Preparing Microwave-Assisted Aqueous Solution Methods. Catalysis Letters, 2014, 144, 1962-1967.	1.4	21
32	Comparison of photoelectrochemical water oxidation activity of a synthetic photocatalyst system with photosystem II. Faraday Discussions, 2014, 176, 199-211.	1.6	19
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39	Pulsed Laser Deposition of Epitaxial and Polycrystalline Bismuth Vanadate Thin Films. Journal of Physical Chemistry C, 2014, 118, 26543-26550.	1.5	49
40	Earth-Abundant Oxygen Evolution Catalysts Coupled onto ZnO Nanowire Arrays for Efficient Photoelectrochemical Water Cleavage. Chemistry - A European Journal, 2014, 20, 12954-12961.	1.7	57
41	In-depth investigation of an $\text{In-Ni-Ta-O-N}$ photocatalyst for overall water splitting under sunlight. Journal of Catalysis, 2014, 320, 208-214.	3.1	9
42	Highly Efficient $\text{Ag}_2\text{O}/\text{Bi}_2\text{O}_3/\text{CO}_3$ p-n Heterojunction Photocatalysts with Improved Visible-Light Responsive Activity. ACS Applied Materials & Interfaces, 2014, 6, 11698-11705.	4.0	257
43	Black $\text{TiO}_2$ nanotube arrays for high-efficiency photoelectrochemical water-splitting. Journal of Materials Chemistry A, 2014, 2, 8612-8616.	5.2	355

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157	Efficient photocatalytic dechlorination of chlorophenols over a nonlinear optical material Na <sub>3</sub> VO <sub>2</sub> B <sub>6</sub> O <sub>11</sub> under UV-visible light irradiation. <i>Journal of Materials Chemistry A</i> , 2015, 3, 12179-12187.	5.2	54



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703	Interface Control of Photoelectrochemical Water Oxidation Performance with Ni <sub>1-x</sub> Fe <sub>x</sub> O <sub>y</sub> Modified Hematite Photoanodes. <i>Chemistry of Materials</i> , 2017, 29, 6674-6683.	3.2	61
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705	Enhanced Photoelectrochemical Water Oxidation Performance of Fe <sub>2</sub> O <sub>3</sub> Nanorods Array by S Doping. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 7502-7506.	3.2	120
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709	Compact carbon nitride based copolymer films with controllable thickness for photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2017, 5, 19062-19071.	5.2	43
710	An Optically and Electrochemically Decoupled Monolithic Photoelectrochemical Cell for High-Performance Solar-Driven Water Splitting. <i>Nano Letters</i> , 2017, 17, 5416-5422.	4.5	46
711	Transformation of homobimetallic MOFs into nickel-cobalt phosphide/nitrogen-doped carbon polyhedral nanocages for efficient oxygen evolution electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2017, 5, 18839-18844.	5.2	99
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713	Highly Efficient Photoelectrochemical Water Splitting from Hierarchical WO <sub>3</sub> /BiVO <sub>4</sub> Nanoporous Sphere Arrays. <i>Nano Letters</i> , 2017, 17, 8012-8017.	4.5	164
714	Significant photoelectrochemical enhancement of TiO <sub>2</sub> photoanodes from Ni(OH) <sub>2</sub> electrocatalyst overcoating. <i>Materials Research Express</i> , 2017, 4, 126202.	0.8	4
715	Enhanced Photoactivity from Single-Crystalline SrTaO <sub>2</sub> N Nanoplates Synthesized by Topotactic Nitridation. <i>Angewandte Chemie</i> , 2017, 129, 14357-14361.	1.6	10
716	Facile Preparation of Porous WO <sub>3</sub> Film for Photoelectrochemical Splitting of Natural Seawater. <i>Journal of Electronic Materials</i> , 2017, 46, 6878-6883.	1.0	10

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719	Up-conversion luminescence coupled to plasmonic gold nanorods for light harvesting and hydrogen production. <i>Chemical Communications</i> , 2017, 53, 13051-13054.	2.2	9
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722	Strategies for Efficient Charge Separation and Transfer in Artificial Photosynthesis of Solar Fuels. <i>ChemSusChem</i> , 2017, 10, 4277-4305.	3.6	75
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733	Chromium doped copper vanadate photoanodes for water splitting. <i>Catalysis Today</i> , 2017, 290, 65-72.	2.2	32
734	Recent Progress on Visible Light Responsive Heterojunctions for Photocatalytic Applications. <i>Journal of Materials Science and Technology</i> , 2017, 33, 1-22.	5.6	176



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822	Photoelectrochemical Stripping Analysis. <i>Analytical Chemistry</i> , 2018, 90, 1068-1071.	3.2	21
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#	ARTICLE	IF	CITATIONS
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1081	Conformal BiVO <sub>4</sub> -Layer/WO <sub>3</sub> -Nanoplate-Array Heterojunction Photoanode Modified with Cobalt Phosphate Cocatalyst for Significantly Enhanced Photoelectrochemical Performances. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 5623-5631.	4.0	91
1082	Carbon Nitride Materials for Water Splitting Photoelectrochemical Cells. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6138-6151.	7.2	205
1083	In Operando Photoelectrochemical Femtosecond Transient Absorption Spectroscopy of WO <sub>3</sub> /BiVO <sub>4</sub> Heterojunctions. <i>ACS Energy Letters</i> , 2019, 4, 2213-2219.	8.8	42
1084	BiVO <sub>4</sub> optimized to nano-worm morphology for enhanced activity towards photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2019, 7, 21207-21221.	5.2	60
1085	Seawater-Mediated Solar-to-Sodium Conversion by Bismuth Vanadate Photoanode- Photovoltaic Tandem Cell: Solar Rechargeable Seawater Battery. <i>IScience</i> , 2019, 19, 232-243.	1.9	16
1086	Highly conformal deposition of ultrathin cobalt acetate on a bismuth vanadate nanostructure for solar water splitting. <i>Catalysis Science and Technology</i> , 2019, 9, 4588-4597.	2.1	4
1087	Mechanistic Insights into Defect-Assisted Carrier Transport in Bismuth Vanadate Photoanodes. <i>Journal of Physical Chemistry C</i> , 2019, 123, 20730-20736.	1.5	32
1088	Enhancing photoelectrochemical water splitting by combining work function tuning and heterojunction engineering. <i>Nature Communications</i> , 2019, 10, 3687.	5.8	300
1089	Enhanced Photoelectrochemical Performance of WO <sub>3</sub> -Based Composite Photoanode Coupled with Carbon Quantum Dots and NiFe Layered Double Hydroxide. <i>ChemSusChem</i> , 2019, 12, 4685-4692.	3.6	27
1090	Photoelectrochemical-voltaic cells consisting of particulate Zn <sub>x</sub> Cd <sub>1-x</sub> Se photoanodes with photovoltages exceeding 1.23 V. <i>Sustainable Energy and Fuels</i> , 2019, 3, 2733-2741.	2.5	2
1091	High-performance functional nanocomposites using 3D ordered and continuous nanostructures generated from proximity-field nanopatterning. <i>Functional Composites and Structures</i> , 2019, 1, 032002.	1.6	27
1092	Construction of 2D Bi <sub>2</sub> S <sub>3</sub> /CdS Nanosheet Arrays for Enhanced Photoelectrochemical Hydrogen Evolution. <i>Journal of Electronic Materials</i> , 2019, 48, 6397-6405.	1.0	8
1093	High Quantum Efficiency Achieved on BiVO <sub>4</sub> Photoanode for Efficient Solar Water Oxidation. <i>Solar Rrl</i> , 2019, 3, 1900301.	3.1	13
1094	Engineering Interfaces to Steer Hole Dynamics of BiVO <sub>4</sub> Photoanodes for Solar Water Oxidation. <i>Solar Rrl</i> , 2019, 3, 1900115.	3.1	23
1095	Ultrathin Nanotubes of Bi <sub>5</sub> O <sub>7</sub> I with a Reduced Band Gap as a High-Performance Photocatalyst. <i>Inorganic Chemistry</i> , 2019, 58, 9833-9843.	1.9	45
1096	High photoelectrochemical activity of CuO nanoflakes grown on Cu foil. <i>Electrochimica Acta</i> , 2019, 319, 390-399.	2.6	32
1097	Super-resolution imaging of non-fluorescent reactions via competition. <i>Nature Chemistry</i> , 2019, 11, 687-694.	6.6	78

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1098	Characterization of $\text{MFe}_2\text{O}_4$ (M = Mg, Zn) Thin Films Prepared by Pulsed Laser Deposition for Photoelectrochemical Applications. <i>Journal of Physical Chemistry C</i> , 2019, 123, 18240-18247.	1.5	31
1099	Suppressing Photoinduced Charge Recombination via the Lorentz Force in a Photocatalytic System. <i>Advanced Science</i> , 2019, 6, 1901244.	5.6	101
1100	Excellent performance of water oxidation at low bias potential achieved by transparent $\text{WO}_3/\text{BiVO}_4$ photoanode integrated with molecular nickel porphyrin. <i>Inorganic Chemistry Communication</i> , 2019, 107, 107480.	1.8	6
1101	Enhanced photocatalytic and photoelectrochemical performance of $\text{g-C}_3\text{N}_4/\text{BiVO}_4$ heterojunction: A combined experimental and theoretical study. <i>AIP Advances</i> , 2019, 9, .	0.6	19
1102	Rational design of photoelectrodes for photoelectrochemical water splitting and $\text{CO}_2$ reduction. <i>Frontiers of Physics</i> , 2019, 14, 1.	2.4	16
1103	Significant tetracycline hydrochloride degradation and electricity generation in a visible-light-driven dual photoelectrode photocatalytic fuel cell using $\text{BiVO}_4/\text{TiO}_2$ NT photoanode and $\text{Cu}_2\text{O}/\text{TiO}_2$ NT photocathode. <i>Electrochimica Acta</i> , 2019, 320, 134617.	2.6	52
1104	High photocatalytic degradation efficiency of oxytetracycline hydrochloride over $\text{Ag}/\text{AgCl}/\text{BiVO}_4$ plasmonic photocatalyst. <i>Solid State Sciences</i> , 2019, 96, 105946.	1.5	42
1105	Ultrafast probes at the interfaces of solar energy conversion materials. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 16399-16407.	1.3	31
1106	Ternary $\text{BiVO}_4/\text{NiS}/\text{Au}$ nanocomposites with efficient charge separations for enhanced visible light photocatalytic performance. <i>Chemical Engineering Journal</i> , 2019, 375, 122093.	6.6	82
1107	High-efficiency photoelectrochemical water splitting with heterojunction photoanode of $\text{In}_2\text{O}_3$ -x nanorods/black $\text{TiO}_2$ nanotubes. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 17611-17621.	3.8	20
1108	Understanding and improving photoelectrochemical performance of $\text{Bi}_2\text{O}_3/\text{Bi}_2\text{S}_3$ composite. <i>New Journal of Chemistry</i> , 2019, 43, 11893-11902.	1.4	10
1109	Construction and characterization of $\text{Ag}/\text{AgI}/\text{Ag}_3\text{BiO}_3$ heterojunction and its photocatalytic mechanism. <i>Journal of Experimental Nanoscience</i> , 2019, 14, 56-68.	1.3	9
1110	The controllable synthesis of novel heterojunction $\text{CoO}/\text{BiVO}_4$ composite catalysts for enhancing visible-light photocatalytic property. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 578, 123608.	2.3	28
1111	Demonstration of a $50\text{ cm}^2$ $\text{BiVO}_4$ tandem photoelectrochemical-photovoltaic water splitting device. <i>Sustainable Energy and Fuels</i> , 2019, 3, 2366-2379.	2.5	84
1112	Bias-Free In Situ $\text{H}_2\text{O}_2$ Generation in a Photovoltaic-Photoelectrochemical Tandem Cell for Biocatalytic Oxyfunctionalization. <i>ACS Catalysis</i> , 2019, 9, 10562-10566.	5.5	40
1113	Modular Layer-by-Layer Assembly of Polyelectrolytes, Nanoparticles, and Molecular Catalysts into Solar-Chemical Energy Conversion Devices. <i>Advanced Functional Materials</i> , 2019, 29, 1906407.	7.8	13
1114	Water Oxidation Catalysts for Artificial Photosynthesis. <i>Advanced Materials</i> , 2019, 31, e1902069.	11.1	215
1115	Efficient $\text{BiVO}_4$ Photoanodes by Postsynthetic Treatment: Remarkable Improvements in Photoelectrochemical Performance from Facile Borate Modification. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 19027-19033.	7.2	108

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1116	Freeing the Polarons to Facilitate Charge Transport in BiVO <sub>4</sub> from Oxygen Vacancies with an Oxidative 2D Precursor. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 19087-19095.	7.2	64
1117	Directly Photoexcited Oxides for Photoelectrochemical Water Splitting. <i>ChemSusChem</i> , 2019, 12, 4337-4352.	3.6	15
1118	In Situ Growth of Nanostructured BiVO <sub>4</sub> –Bi <sub>2</sub> O <sub>3</sub> Mixed-Phase via Nonequilibrium Deposition Involving Metal Exsolution for Enhanced Photoelectrochemical Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 44069-44076.	4.0	18
1119	Simultaneous Improvement of Absorption and Separation Efficiencies of Mo:BiVO <sub>4</sub> Photoanodes via Nanopatterned SnO <sub>2</sub> /Au Hybrid Layers. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 17000-17007.	3.2	7
1120	Deposition of heterojunction of ZnO on hydrogenated TiO <sub>2</sub> nanotube arrays by atomic layer deposition for enhanced photoelectrochemical water splitting. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 28685-28697.	3.8	38
1121	A portable non-enzyme photoelectrochemical ascorbic acid sensor based on BiVO <sub>4</sub> electrode under 20W LED light. <i>Journal of Electroanalytical Chemistry</i> , 2019, 855, 113573.	1.9	9
1122	Ultrathin g-C <sub>3</sub> N <sub>4</sub> /Mo:BiVO <sub>4</sub> photoanode for enhanced photoelectrochemical water oxidation. <i>Journal of Power Sources</i> , 2019, 444, 227300.	4.0	34
1123	Utilizing solar energy to improve the oxygen evolution reaction kinetics in zinc–air battery. <i>Nature Communications</i> , 2019, 10, 4767.	5.8	199
1124	Surface chemistry and photoelectrochemistry—Case study on tantalum nitride. <i>Journal of Chemical Physics</i> , 2019, 151, 130902.	1.2	17
1125	Enhanced photoelectrochemical water oxidation activity of BiVO <sub>4</sub> by coating of Co-phenolic networks as hole-transfer and co-catalyst. <i>Journal of Catalysis</i> , 2019, 377, 684-691.	3.1	43
1126	Copper Tungstate (CuWO <sub>4</sub> ) Nanoflakes Coupled with Cobalt Phosphate (Co-Pi) for Effective Photoelectrochemical Water Splitting. <i>International Journal of Electrochemical Science</i> , 2019, , 9017-9029.	0.5	7
1127	A Boolean OR gate implemented with an optoelectronic switching memristor. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	20
1128	Periodic table of elements and nanotechnology. <i>Mendeleev Communications</i> , 2019, 29, 479-485.	0.6	15
1129	Amorphous Co–Cu–Al mixed metal oxide nanoparticles modified BiVO <sub>4</sub> to improve photocatalytic desulfurization. <i>Materials Research Express</i> , 2019, 6, 096205.	0.8	1
1130	Cu <sub>2</sub> O photocathodes for unassisted solar water-splitting devices enabled by noble-metal cocatalysts simultaneously as hydrogen evolution catalysts and protection layers. <i>Nanotechnology</i> , 2019, 30, 495407.	1.3	13
1131	Photoinduced Carrier Dynamics at the Interface of Black Phosphorus and Bismuth Vanadate. <i>Journal of Physical Chemistry A</i> , 2019, 123, 10019-10029.	1.1	5
1132	Growth of Doped SrTiO <sub>3</sub> Ferroelectric Nanoporous Thin Films and Tuning of Photoelectrochemical Properties with Switchable Ferroelectric Polarization. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 45683-45691.	4.0	32
1133	Upscaling of Temperature-Sensitive Particle Photocatalyst Electrodes: Fully Ambient and Scalable Roll-Press Fabrication of Ta <sub>3</sub> N <sub>5</sub> Photoelectrodes on Metal Substrate. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 19407-19414.	3.2	10

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1135	Spectroelectrochemical study of water oxidation on nickel and iron oxyhydroxide electrocatalysts. <i>Nature Communications</i> , 2019, 10, 5208.	5.8	118
1136	Synthesis of Bismuth Vanadate by a Novel Process and Its Enhanced Photoelectrochemical Performance. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 562, 012097.	0.3	1
1138	An Efficient Strategy for Boosting Photogenerated Charge Separation by Using Porphyrins as Interfacial Charge Mediators. <i>Angewandte Chemie</i> , 2019, 131, 16956-16961.	1.6	8
1139	Anionic Dopant Delocalization through $\pi$ -Band Modulation to Endow Metal Oxides with Enhanced Visible-Light Photoactivity. <i>Angewandte Chemie</i> , 2019, 131, 16813-16820.	1.6	7
1140	Efficient BiVO <sub>4</sub> Photoanodes by Postsynthetic Treatment: Remarkable Improvements in Photoelectrochemical Performance from Facile Borate Modification. <i>Angewandte Chemie</i> , 2019, 131, 19203-19209.	1.6	35
1141	Freeing the Polarons to Facilitate Charge Transport in BiVO <sub>4</sub> from Oxygen Vacancies with an Oxidative 2D Precursor. <i>Angewandte Chemie</i> , 2019, 131, 19263-19271.	1.6	21
1142	An Efficient Strategy for Boosting Photogenerated Charge Separation by Using Porphyrins as Interfacial Charge Mediators. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 16800-16805.	7.2	80
1143	Anionic Dopant Delocalization through $\pi$ -Band Modulation to Endow Metal Oxides with Enhanced Visible-Light Photoactivity. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 16660-16667.	7.2	20
1144	Visible-light-driven photocatalytic removal of Cr(VI) and rhodamine B by monoclinic BiVO <sub>4</sub> -diatomite composite. <i>Materials Research Express</i> , 2019, 6, 115904.	0.8	3
1145	Multilayered Fluorine Doped SnO <sub>2</sub> Inverse Opal/WO <sub>3</sub> /BiVO <sub>4</sub> Film for Solar Water Oxidation: Systematic Development and Defined Role of Each Layer. <i>Journal of the Electrochemical Society</i> , 2019, 166, H750-H763.	1.3	4
1146	Converting glycerol aqueous solution to hydrogen energy and dihydroxyacetone by the BiVO <sub>4</sub> photoelectrochemical cell. <i>Electrochimica Acta</i> , 2019, 322, 134725.	2.6	42
1147	Triple Layer Heterojunction WO <sub>3</sub> /BiVO <sub>4</sub> /BiFeO <sub>3</sub> Porous Photoanode for Efficient Photoelectrochemical Water Splitting. <i>ACS Applied Energy Materials</i> , 2019, 2, 6428-6439.	2.5	57
1148	Strategies for enhancing the photocurrent, photovoltage, and stability of photoelectrodes for photoelectrochemical water splitting. <i>Chemical Society Reviews</i> , 2019, 48, 4979-5015.	18.7	429
1149	Effect of Stacking Interactions on the Translation of Structurally Related Bis(thiosemicarbazonato)nickel(II) HER Catalysts to Modified Electrode Surfaces. <i>Inorganic Chemistry</i> , 2019, 58, 12025-12039.	1.9	6
1150	Enhanced Photocatalytic Activity of Aerogel Composed of Crooked Carbon Nitride Nanolayers with Nitrogen Vacancies. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 34922-34929.	4.0	30
1151	Impact of lattice defects on water oxidation properties in SnNb <sub>2</sub> O <sub>6</sub> photoanode prepared by pulsed-laser deposition method. <i>Journal of Applied Physics</i> , 2019, 126, .	1.1	5
1152	Self-improvement of solar water oxidation for the continuously-irradiated hematite photoanode. <i>Dalton Transactions</i> , 2019, 48, 15151-15159.	1.6	15

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1154	NiFe layered double hydroxide/BiVO <sub>4</sub> photoanode based dual-photoelectrode photocatalytic fuel cell for enhancing degradation of azo dye and electricity generation. <i>Energy Procedia</i> , 2019, 158, 2188-2195.	1.8	16
1155	The Self-Passivation Mechanism in Degradation of BiVO <sub>4</sub> Photoanode. <i>IScience</i> , 2019, 19, 976-985.	1.9	40
1156	State-of-the-art progress in the use of ternary metal oxides as photoelectrode materials for water splitting and organic synthesis. <i>Nano Today</i> , 2019, 28, 100763.	6.2	67
1157	Preparation of Helical BiVO <sub>4</sub> /Ag/C <sub>3</sub> N <sub>4</sub> for Selective Oxidation of C-H Bond under Visible Light Irradiation. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 17500-17506.	3.2	36
1158	NiFe-layered double hydroxide decorated BiVO <sub>4</sub> photoanode based bi-functional solar-light driven dual-photoelectrode photocatalytic fuel cell. <i>Applied Energy</i> , 2019, 255, 113770.	5.1	36
1159	Photoanode of LDH catalyst decorated semiconductor heterojunction of BiVO <sub>4</sub> /CdS to enhance PEC water splitting efficiency. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 24642-24652.	3.8	46
1160	Understanding Reaction Kinetics by Tailoring Metal Co-catalysts of the BiVO <sub>4</sub> Photocatalyst. <i>ACS Omega</i> , 2019, 4, 16597-16602.	1.6	24
1161	Two-Dimensional CuTe <sub>2</sub> X (X = Cl, Br, and I): Potential Photocatalysts for Water Splitting under the Visible/Infrared Light. <i>Journal of Physical Chemistry C</i> , 2019, 123, 25543-25548.	1.5	6
1162	Nanotechnology Facets of the Periodic Table of Elements. <i>ACS Nano</i> , 2019, 13, 10879-10886.	7.3	26
1163	Progress on ternary oxide-based photoanodes for use in photoelectrochemical cells for solar water splitting. <i>Chemical Society Reviews</i> , 2019, 48, 2126-2157.	18.7	296
1164	In situ growth of triazine-heptazine based carbon nitride film for efficient (photo)electrochemical performance. <i>Catalysis Science and Technology</i> , 2019, 9, 425-435.	2.1	23
1165	Photoelectrochemical CO <sub>2</sub> reduction to adjustable syngas on grain-boundary-mediated a-Si/TiO <sub>2</sub> /Au photocathodes with low onset potentials. <i>Energy and Environmental Science</i> , 2019, 12, 923-928.	15.6	114
1166	Iron phosphate modified calcium iron oxide as an efficient and robust catalyst in electrocatalyzing oxygen evolution from seawater. <i>Faraday Discussions</i> , 2019, 215, 205-215.	1.6	32
1167	A tandem photoelectrochemical water splitting cell consisting of CuBi <sub>2</sub> O <sub>4</sub> and BiVO <sub>4</sub> synthesized from a single Bi <sub>4</sub> O <sub>5</sub> I <sub>2</sub> nanosheet template. <i>Faraday Discussions</i> , 2019, 215, 297-312.	1.6	22
1168	Plasmonically-powered hot carrier induced modulation of light emission in a two-dimensional GaAs semiconductor quantum well. <i>Nanoscale</i> , 2019, 11, 3827-3836.	2.8	6
1169	Interface engineering for light-driven water oxidation: unravelling the passivating and catalytic mechanism in BiVO <sub>4</sub> overlayers. <i>Sustainable Energy and Fuels</i> , 2019, 3, 127-135.	2.5	28
1170	Enhanced water oxidation reaction kinetics on a BiVO <sub>4</sub> photoanode by surface modification with Ni <sub>4</sub> O <sub>4</sub> cubane. <i>Journal of Materials Chemistry A</i> , 2019, 7, 278-288.	5.2	51



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1172	Thin film photoelectrodes for solar water splitting. <i>Chemical Society Reviews</i> , 2019, 48, 2182-2215.	18.7	221
1173	Beyond band bending in the WO <sub>3</sub> /BiVO <sub>4</sub> heterojunction: insight from DFT and experiment. <i>Sustainable Energy and Fuels</i> , 2019, 3, 264-271.	2.5	17
1174	Unraveling the impact of the Pd nanoparticle@BiVO <sub>4</sub> /S-CN heterostructure on the photo-physical & opto-electronic properties for enhanced catalytic activity in water splitting and one-pot three-step tandem reaction. <i>Nanoscale Advances</i> , 2019, 1, 1395-1412.	2.2	15
1175	Growth of BiVO <sub>4</sub> nanoparticles on a WO <sub>3</sub> porous scaffold: improved water-splitting by high band-edge light harvesting. <i>Journal of Materials Chemistry A</i> , 2019, 7, 4480-4485.	5.2	16
1176	Design of an amorphous TaO <sub>x</sub> multifunctional interfacial layer on photocathodes for photoelectrochemical H <sub>2</sub> evolution. <i>Journal of Materials Chemistry A</i> , 2019, 7, 2041-2047.	5.2	15
1177	Defect Engineering in Semiconductors: Manipulating Nonstoichiometric Defects and Understanding Their Impact in Oxynitrides for Solar Energy Conversion. <i>Advanced Functional Materials</i> , 2019, 29, 1808389.	7.8	56
1178	Fabrication of Fe <sub>3</sub> O <sub>4</sub> quantum dots modified BiOCl/BiVO <sub>4</sub> p-n heterojunction to enhance photocatalytic activity for removing broad-spectrum antibiotics under visible light. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 96, 681-690.	2.7	85
1179	Enhanced photocatalytic activity of BiVO <sub>4</sub> coupled with iron-based complexes for water oxidation under visible light irradiation. <i>Chemical Communications</i> , 2019, 55, 2529-2532.	2.2	18
1180	Solution-processed TiO <sub>2</sub> /BiVO <sub>4</sub> /SnO <sub>2</sub> triple-layer photoanode with enhanced photoelectrochemical performance. <i>Journal of Alloys and Compounds</i> , 2019, 785, 1245-1252.	2.8	27
1181	Recent progresses in the design of BiVO <sub>4</sub> -based photocatalysts for efficient solar water splitting. <i>Catalysis Today</i> , 2019, 335, 31-38.	2.2	54
1182	A nanostructured NiO/cubic SiC p-n heterojunction photoanode for enhanced solar water splitting. <i>Journal of Materials Chemistry A</i> , 2019, 7, 4721-4728.	5.2	50
1183	WO <sub>3</sub> /BiVO <sub>4</sub> : impact of charge separation at the timescale of water oxidation. <i>Chemical Science</i> , 2019, 10, 2643-2652.	3.7	59
1184	2D/2D Heterojunctions for Catalysis. <i>Advanced Science</i> , 2019, 6, 1801702.	5.6	224
1185	A Type II n-n staggered orthorhombic V <sub>2</sub> O <sub>5</sub> /monoclinic clinobisvanite BiVO <sub>4</sub> heterojunction photoanode for photoelectrochemical water oxidation: Fabrication, characterisation and experimental validation. <i>Chemical Engineering Journal</i> , 2019, 364, 177-185.	6.6	81
1186	Defect-rich and ultrathin CoOOH nanolayers as highly efficient oxygen evolution catalysts for photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2019, 7, 4415-4419.	5.2	55
1187	Analysis of the interfacial characteristics of BiVO <sub>4</sub> /metal oxide heterostructures and its implication on their junction properties. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 5086-5096.	1.3	56
1188	Dual Quantum Dot-Decorated Bismuth Vanadate Photoanodes for Highly Efficient Solar Water Oxidation. <i>ChemSusChem</i> , 2019, 12, 1240-1245.	3.6	19

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1190	Reducing the surface recombination during light-driven water oxidation by core-shell BiVO <sub>4</sub> @Ni:FeOOH. Electrochimica Acta, 2019, 300, 77-84.	2.6	25
1191	Immobilization of a molecular cobalt cubane catalyst on porous BiVO <sub>4</sub> via electrochemical polymerization for efficient and stable photoelectrochemical water oxidation. Chemical Communications, 2019, 55, 1414-1417.	2.2	23
1192	Enhancing photoelectrochemical hydrogen production of a n <sup>+</sup> p-Si hetero-junction photocathode with amorphous Ni and Ti layers. Inorganic Chemistry Frontiers, 2019, 6, 527-532.	3.0	10
1193	Converting benzene into $\hat{1}^3$ -graphyne and its enhanced electrochemical oxygen evolution performance. Journal of Materials Chemistry A, 2019, 7, 5981-5990.	5.2	86
1194	Recent advances in BiVO <sub>4</sub> semiconductor materials for hydrogen production using photoelectrochemical water splitting. Renewable and Sustainable Energy Reviews, 2019, 111, 332-343.	8.2	179
1195	ZnS@CdS@TaON nanocomposites with enhanced stability and photocatalytic hydrogen evolution activity. Journal of Sol-Gel Science and Technology, 2019, 91, 82-91.	1.1	18
1196	Structural Monitoring of NiB Modified BiVO <sub>4</sub> Photoanodes Using in Situ Soft and Hard X-ray Absorption Spectroscopies. ACS Applied Energy Materials, 2019, 2, 4126-4134.	2.5	6
1197	MOF-derived Co <sub>3</sub> O <sub>4</sub> thin film decorated BiVO <sub>4</sub> for enhancement of photoelectrochemical water splitting. Applied Surface Science, 2019, 491, 497-504.	3.1	77
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1199	The impact of crystal defects towards oxide semiconductor photoanode for photoelectrochemical water splitting. Frontiers of Physics, 2019, 14, 1.	2.4	10
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1208	Assembly of large-area reduced graphene oxide films for the construction of Z-scheme over single-crystal porous Bi <sub>5</sub> O <sub>7</sub> I nanosheets. <i>Journal of Colloid and Interface Science</i> , 2019, 552, 651-658.	5.0	14
1209	Fabrication of Zinc pyrovanadate (Zn <sub>3</sub> (OH) <sub>2</sub> V <sub>2</sub> O <sub>7</sub> ·2H <sub>2</sub> O) nanosheet spheres as an ethanol gas sensor. <i>Journal of Alloys and Compounds</i> , 2019, 801, 581-588.	2.8	18
1210	Artificial photosynthesis systems for catalytic water oxidation. <i>Advances in Inorganic Chemistry</i> , 2019, 74, 3-59.	0.4	35
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1213	A Cocrystal Precursor Strategy for Carbon-Rich Graphitic Carbon Nitride toward High-Efficiency Photocatalytic Overall Water Splitting. <i>IScience</i> , 2019, 16, 22-30.	1.9	54
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1215	Rational Design of Branched WO <sub>3</sub> Nanorods Decorated with BiVO <sub>4</sub> Nanoparticles by All-Solution Processing for Efficient Photoelectrochemical Water Splitting. <i>ACS Applied Energy Materials</i> , 2019, 2, 4535-4543.	2.5	36
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1221	Toward Efficient Charge Collection and Light Absorption: A Perspective of Light Trapping for Advanced Photoelectrodes. <i>Journal of Physical Chemistry C</i> , 2019, 123, 18753-18770.	1.5	12
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1223	Bimetallic phosphide decorated Mo-BiVO <sub>4</sub> for significantly improved photoelectrochemical activity and stability. <i>RSC Advances</i> , 2019, 9, 15629-15634.	1.7	15
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1226	Fast Surface Charge Transfer with Reduced Band Gap Energy of FeVO <sub>4</sub> /Graphene Nanocomposite and Study of Its Electrochemical Property and Enhanced Photocatalytic Activity. <i>Arabian Journal for Science and Engineering</i> , 2019, 44, 6659-6667.	1.7	21
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1231	Strategies of Anode Materials Design towards Improved Photoelectrochemical Water Splitting Efficiency. <i>Coatings</i> , 2019, 9, 309.	1.2	13
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1234	Sandwich-type cobalt-polyoxometalate as an effective hole extraction layer for enhancing BiVO <sub>4</sub> -based photoelectrochemical oxidation. <i>Journal of Alloys and Compounds</i> , 2019, 797, 140-147.	2.8	39
1235	Continuous 3D Titanium Nitride Nanoshell Structure for Solar-Driven Unbiased Biocatalytic CO <sub>2</sub> Reduction. <i>Advanced Energy Materials</i> , 2019, 9, 1900029.	10.2	81
1236	Metal (Ni <sup>2+</sup> /Co <sup>2+</sup> ) sulfides modified BiVO <sub>4</sub> for effective improvement in photoelectrochemical water splitting. <i>Journal of Colloid and Interface Science</i> , 2019, 549, 80-88.	5.0	36
1237	Enhanced Photoelectrochemical Water Oxidation Performance by Fluorine Incorporation in BiVO <sub>4</sub> and Mo:BiVO <sub>4</sub> Thin Film Photoanodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 16430-16442.	4.0	52
1238	BiVO <sub>4</sub> nanocrystals with controllable oxygen vacancies induced by Zn-doping coupled with graphene quantum dots for enhanced photoelectrochemical water splitting. <i>Chemical Engineering Journal</i> , 2019, 372, 399-407.	6.6	102
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1241	The Role of Underlayers and Overlayers in Thin Film BiVO <sub>4</sub> Photoanodes for Solar Water Splitting. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900299.	1.9	28
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1244	Stepping towards Solar Water Splitting: Recent Progress in Bismuth Vanadate Photoanodes. <i>ChemElectroChem</i> , 2019, 6, 3227-3243.	1.7	42
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1248	GeSe@SnS: stacked Janus structures for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2019, 7, 12060-12067.	5.2	66
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1251	Epitaxial growth of Heteropolyacid-WO <sub>3</sub> vertical heterostructures with photo-induced charge modulation for enhanced water oxidation. <i>Electrochimica Acta</i> , 2019, 306, 96-105.	2.6	7
1252	Modulating Carrier Transport via Defect Engineering in Solar Water Splitting Devices. <i>ACS Energy Letters</i> , 2019, 4, 834-843.	8.8	23
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1262	Two dimensional bismuth-based layered materials for energy-related applications. <i>Energy Storage Materials</i> , 2019, 19, 446-463.	9.5	89
1263	Boosting hematite photoelectrochemical water splitting by decoration of TiO <sub>2</sub> at the grain boundaries. <i>Chemical Engineering Journal</i> , 2019, 368, 959-967.	6.6	54
1264	Reaction systems for solar hydrogen production via water splitting with particulate semiconductor photocatalysts. <i>Nature Catalysis</i> , 2019, 2, 387-399.	16.1	985
1265	Photoelectrochemical properties of BiVO <sub>4</sub> thin films with NaOH chemical treatment. <i>Rare Metals</i> , 2019, 38, 446-452.	3.6	4
1266	Toward practical solar hydrogen production – an artificial photosynthetic leaf-to-farm challenge. <i>Chemical Society Reviews</i> , 2019, 48, 1908-1971.	18.7	781
1267	Crystal Facet Engineering of Photoelectrodes for Photoelectrochemical Water Splitting. <i>Chemical Reviews</i> , 2019, 119, 5192-5247.	23.0	551
1268	Single-crystal TiO <sub>2</sub> /SrTiO <sub>3</sub> core-shell heterostructured nanowire arrays for enhanced photoelectrochemical performance. <i>Rare Metals</i> , 2019, 38, 369-378.	3.6	18
1269	A non-enzymatic photoelectrochemical glucose sensor based on BiVO <sub>4</sub> electrode under visible light. <i>Sensors and Actuators B: Chemical</i> , 2019, 291, 34-41.	4.0	67
1270	Ultrathin TiO <sub>2</sub> /BiVO <sub>4</sub> nanosheet heterojunction arrays modified with NiFe-LDH nanoparticles for enhanced photoelectrochemical oxidation of water. <i>Journal of Colloid and Interface Science</i> , 2019, 549, 42-49.	5.0	36
1271	Enhanced Photoelectrochemical Water Splitting through Bismuth Vanadate with a Photon Upconversion Luminescent Reflector. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6891-6895.	7.2	36
1272	Guiding charge transfer kinetics into cocatalyst for efficient solar water splitting. <i>Electrochimica Acta</i> , 2019, 307, 43-50.	2.6	8
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1275	A Semitransparent Nitride Photoanode Responsive up to $\lambda = 600$ nm Based on a Carbon Nanotube Thin Film Electrode. <i>ChemPhotoChem</i> , 2019, 3, 521-524.	1.5	13
1276	TiO <sub>2</sub> ALD decorated CuO/BiVO <sub>4</sub> p-n heterojunction for improved photoelectrochemical water splitting. <i>Journal of Materials Science and Technology</i> , 2019, 35, 1740-1746.	5.6	40
1277	Bi <sub>2</sub> Fe <sub>4</sub> O <sub>9</sub> thin films as novel visible-light-active photoanodes for solar water splitting. <i>Journal of Materials Chemistry A</i> , 2019, 7, 9537-9541.	5.2	35
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1280	Elaborately Modified BiVO <sub>4</sub> Photoanodes for Solar Water Splitting. <i>Advanced Materials</i> , 2019, 31, e1806938.	11.1	333
1281	NiFeOx nanosheets tight-coupled with Bi <sub>2</sub> WO <sub>6</sub> nanosheets to improve the electrocatalyst for oxygen evolution reaction. <i>Applied Surface Science</i> , 2019, 478, 969-980.	3.1	17
1282	Integration of Molybdenum-Doped, Hydrogen-Annealed BiVO <sub>4</sub> with Silicon Microwires for Photoelectrochemical Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 5034-5044.	3.2	8
1283	Synthesis of Ag/BiVO <sub>4</sub> /rGO composite with enhanced photocatalytic degradation of triclosan. <i>Science of the Total Environment</i> , 2019, 664, 230-239.	3.9	75
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1285	Strong-coupled CoOx nanoparticles/Bi <sub>2</sub> WO <sub>6</sub> nanosheets hybrid as electrocatalyst for water oxidation under alkaline conditions. <i>Materials Research Bulletin</i> , 2019, 113, 152-160.	2.7	18
1286	Catalytic Multilayers for Efficient Solar Water Oxidation through Catalyst Loading and Surface-State Passivation of BiVO <sub>4</sub> Photoanodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 7990-7999.	4.0	35
1287	An Unconventional Iron Nickel Catalyst for the Oxygen Evolution Reaction. <i>ACS Central Science</i> , 2019, 5, 558-568.	5.3	263
1288	Spatial engineering of a Co(OH) <sub>x</sub> encapsulated p-Cu <sub>2</sub> S/n-BiVO <sub>4</sub> photoanode: simultaneously promoting charge separation and surface reaction kinetics in solar water splitting. <i>Journal of Materials Chemistry A</i> , 2019, 7, 6747-6752.	5.2	43
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1290	Uncovering Photo-Excited Charge Carrier Dynamics in Hematite (±Fe <sub>2</sub> O <sub>3</sub> ) Hidden in the Nanosecond Range by the Heterodyne Transient Grating Technique Combined with the Randomly Interleaved Pulse-Train Method. <i>Journal of Physical Chemistry C</i> , 2019, 123, 6693-6700.	1.5	25
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1292	Photocatalytic behaviors of epitaxial BiVO <sub>4</sub> (010) thin films. <i>Applied Catalysis B: Environmental</i> , 2019, 248, 115-119.	10.8	43
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1294	Mannitol-assisted synthesis of ultrathin Bi <sub>2</sub> MoO <sub>6</sub> architectures: excellent selective adsorption and photocatalytic performance. <i>Journal of Nanoparticle Research</i> , 2019, 21, 1.	0.8	13
1295	Simultaneous reduction of surface, bulk, and interface recombination for Au nanoparticle-embedded hematite nanorod photoanodes toward efficient water splitting. <i>Journal of Materials Chemistry A</i> , 2019, 7, 5258-5265.	5.2	17
1296	High-efficiency visible-light-driven Ag <sub>3</sub> PO <sub>4</sub> photocatalysts modified by conjugated polyvinyl alcohol derivatives. <i>Materials Research Express</i> , 2019, 6, 125558.	0.8	4

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1298	Cooperative Catalytic Behavior of SnO <sub>2</sub> and NiWO <sub>4</sub> over BiVO <sub>4</sub> Photoanodes for Enhanced Photoelectrochemical Water Splitting Performance. <i>Catalysts</i> , 2019, 9, 879.	1.6	13
1299	Reasonable regulation of kinetics over BiVO <sub>4</sub> photoanode by Fe-CoP catalysts for boosting photoelectrochemical water splitting. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 28184-28193.	3.8	33
1300	Single nanoparticle photoelectrochemistry: What is next?. <i>Journal of Chemical Physics</i> , 2019, 151, 180901.	1.2	10
1301	Sandwich structured WO <sub>3</sub> nanoplatelets for highly efficient photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2019, 7, 26077-26088.	5.2	76
1302	Synthesis of BiVO <sub>4</sub> photocatalyst via cyclic microwave irradiation method. <i>Ferroelectrics</i> , 2019, 552, 42-52.	0.3	1
1303	Status and challenges in photocatalytic nanotechnology for cleaning air polluted with volatile organic compounds: visible light utilization and catalyst deactivation. <i>Environmental Science: Nano</i> , 2019, 6, 3185-3214.	2.2	124
1304	Honeycomb-shaped carbon nanotube supports for BiVO <sub>4</sub> based solar water splitting. <i>Nanoscale</i> , 2019, 11, 22964-22970.	2.8	15
1305	Unveiling the role of tetragonal BiVO <sub>4</sub> as a mediator for dual phase BiVO <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> composite photocatalysts enabling highly efficient water oxidation <i>via Z-scheme</i> charge transfer. <i>Journal of Materials Chemistry A</i> , 2019, 7, 26279-26284.	5.2	22
1306	An ultra-thin NiOOH layer loading on BiVO <sub>4</sub> photoanode for highly efficient photoelectrochemical water oxidation. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 30160-30170.	3.8	37
1307	From One to Two: In Situ Construction of an Ultrathin 2D-2D Closely Bonded Heterojunction from a Single-Phase Monolayer Nanosheet. <i>Journal of the American Chemical Society</i> , 2019, 141, 19715-19727.	6.6	148
1308	A methodological review on material growth and synthesis of solar-driven water splitting photoelectrochemical cells. <i>RSC Advances</i> , 2019, 9, 30112-30124.	1.7	24
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1310	Electrocatalytic water oxidation by a Ni(salophen)-type complex. <i>RSC Advances</i> , 2019, 9, 40424-40436.	1.7	26
1311	Insight into the PEC and interfacial charge transfer kinetics at the Mo doped BiVO <sub>4</sub> photoanodes. <i>RSC Advances</i> , 2019, 9, 41368-41382.	1.7	37
1312	Ultrathin NiCo <sub>2</sub> O <sub>4</sub> nanosheets with dual-metal active sites for enhanced solar water splitting of a BiVO <sub>4</sub> photoanode. <i>Journal of Materials Chemistry A</i> , 2019, 7, 22274-22278.	5.2	26
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1314	Cobalt phosphate modified 3D TiO <sub>2</sub> /BiVO <sub>4</sub> composite inverse opals photoanode for enhanced photoelectrochemical water splitting. <i>Applied Surface Science</i> , 2019, 464, 544-551.	3.1	33



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1316	Enhancement in the photocatalytic antifouling efficiency over cherimoya-like InVO <sub>4</sub> /BiVO <sub>4</sub> with a new vanadium source. <i>Journal of Colloid and Interface Science</i> , 2019, 533, 358-368.	5.0	50
1317	The synergistic effect of non-metal doping or defect engineering and interface coupling on the photocatalytic property of g-C <sub>3</sub> N <sub>4</sub> : First-principle investigations. <i>Applied Surface Science</i> , 2019, 473, 386-392.	3.1	64
1318	Multifunctional ternary hydroxalite-like nanosheet arrays as an efficient co-catalyst for vastly improved water splitting performance on bismuth vanadate photoanode. <i>Journal of Catalysis</i> , 2019, 370, 1-10.	3.1	21
1319	A BiVO <sub>4</sub> film photoanode with re-annealing treatment and 2D thin Ti <sub>3</sub> C <sub>2</sub> TX flakes decoration for enhanced photoelectrochemical water oxidation. <i>Chemical Engineering Journal</i> , 2019, 361, 853-861.	6.6	67
1320	Selectivity of H <sub>2</sub> O <sub>2</sub> and O <sub>2</sub> by water oxidation on metal oxide surfaces. <i>Journal of Chemical Physics</i> , 2019, 150, 041712.	1.2	11
1321	Carbon nanosheet facilitated charge separation and transfer between molybdenum carbide and graphitic carbon nitride toward efficient photocatalytic H <sub>2</sub> production. <i>Applied Surface Science</i> , 2019, 473, 91-101.	3.1	59
1322	Ti <sub>3</sub> C <sub>2</sub> MXene nanoparticles modified metal oxide composites for enhanced photoelectrochemical water splitting. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 2704-2710.	3.8	72
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1324	Introduction of oxygen vacancies into hematite in local reducing atmosphere for solar water oxidation. <i>Solar Energy</i> , 2019, 179, 99-105.	2.9	14
1325	Synergistic Effect Between WO <sub>3</sub> /Activated Carbon and BiVO <sub>4</sub> Nanoparticles for Improved Photocatalytic Hydrogen Evolution. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2019, 29, 869-875.	1.9	6
1326	Electrospun nanostructured Co <sub>3</sub> O <sub>4</sub> /BiVO <sub>4</sub> composite films for photoelectrochemical applications. <i>Journal of Colloid and Interface Science</i> , 2019, 539, 442-447.	5.0	26
1327	Atomic Layer Deposition of Space-Efficient SnO <sub>2</sub> Underlayers for BiVO <sub>4</sub> Host-Guest Architectures for Photoassisted Water Splitting. <i>ChemSusChem</i> , 2019, 12, 1916-1924.	3.6	10
1328	WO <sub>3</sub> /BiVO <sub>4</sub> Type-II Heterojunction Arrays Decorated with Oxygen-Deficient ZnO Passivation Layer: A Highly Efficient and Stable Photoanode. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 889-897.	4.0	86
1329	Ti, Zn co-doped hematite photoanode for solar driven photoelectrochemical water oxidation. <i>Journal of Energy Chemistry</i> , 2019, 35, 30-36.	7.1	42
1330	Dynamic Mechanical and Electric Behaviors of La-Doped BiVO <sub>4</sub> . <i>Crystal Growth and Design</i> , 2019, 19, 275-284.	1.4	3
1331	Compositionally graded SnO <sub>2</sub> /TiO <sub>2</sub> bi-layered compounds with dramatically enhanced charge transport efficiency for self-driven water purification applications. <i>Journal of Alloys and Compounds</i> , 2019, 776, 839-849.	2.8	9
1332	Surface Engineering of Nanomaterials for Photo-Electrochemical Water Splitting. <i>Small</i> , 2019, 15, e1803746.	5.2	72

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1334	Rational Design and Construction of Cocatalysts for Semiconductor-Based Photoelectrochemical Oxygen Evolution: A Comprehensive Review. <i>Advanced Science</i> , 2019, 6, 1801505.	5.6	120
1335	Synthesis of TiO <sub>2</sub> -based nanocomposites by anodizing and hydrogen annealing for efficient photoelectrochemical water oxidation. <i>Journal of Power Sources</i> , 2019, 410-411, 59-68.	4.0	16
1336	Fabrication of photoactive CaTiO <sub>3</sub> /TiO <sub>2</sub> composite thin film electrodes via facile single step aerosol assisted chemical vapor deposition route. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 1411-1424.	1.1	23
1337	NH <sub>2</sub> -MIL-125(Ti)/TiO <sub>2</sub> nanorod heterojunction photoanodes for efficient photoelectrochemical water splitting. <i>Applied Catalysis B: Environmental</i> , 2019, 244, 511-518.	10.8	131
1338	Acid-treated Ti <sup>4+</sup> doped hematite photoanode for efficient solar water oxidation—Insight into surface states and charge separation. <i>Journal of Alloys and Compounds</i> , 2019, 782, 943-951.	2.8	26
1339	Facile in situ synthesis of Ag and Bi co-decorated BiOCl heterojunction with high photocatalytic performance over the full solar spectrum. <i>Solid State Sciences</i> , 2019, 89, 74-84.	1.5	26
1340	Molecule Self-Assembly Synthesis of Porous Few-Layer Carbon Nitride for Highly Efficient Photoredox Catalysis. <i>Journal of the American Chemical Society</i> , 2019, 141, 2508-2515.	6.6	685
1341	Nanoporous Fe-doped BiVO <sub>4</sub> Modified with MIL-53 (Fe) for Enhanced Photoelectrochemical Stability and Water Splitting Performances. <i>Catalysis Letters</i> , 2019, 149, 870-875.	1.4	17
1342	Acid-Compatible Halide Perovskite Photocathodes Utilizing Atomic Layer Deposited TiO <sub>2</sub> for Solar-Driven Hydrogen Evolution. <i>ACS Energy Letters</i> , 2019, 4, 293-298.	8.8	75
1343	Manipulation of Charge Transport by Metallic V <sub>13</sub> O <sub>16</sub> Decorated on Bismuth Vanadate Photoelectrochemical Catalyst. <i>Advanced Materials</i> , 2019, 31, e1807204.	11.1	57
1344	Tailored Assembly of Molecular Water Oxidation Catalysts on Photoelectrodes for Artificial Photosynthesis. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 2040-2057.	1.0	28
1345	High-Temperature One-Step Synthesis of Efficient Nanostructured Bismuth Vanadate Photoanodes for Water Oxidation. <i>Energy Technology</i> , 2019, 7, 1801052.	1.8	23
1346	Metal-organic framework coated titanium dioxide nanorod array in heterojunction photoanode for solar water-splitting. <i>Nano Research</i> , 2019, 12, 643-650.	5.8	73
1347	Hydrogen generation with acid/alkaline amphoteric water electrolysis. <i>Journal of Energy Chemistry</i> , 2019, 38, 162-169.	7.1	103
1348	Hierarchical architectures of wrinkle-like ZnFe <sub>2</sub> O <sub>4</sub> nanosheet-enwrapped ZnO nanotube arrays for remarkably photoelectrochemical water splitting to produce hydrogen. <i>Journal of Colloid and Interface Science</i> , 2019, 536, 408-413.	5.0	39
1349	The bismuth vanadate thin layers modified by cobalt hexacyanocobaltate as visible-light active photoanodes for photoelectrochemical water oxidation. <i>Electrochimica Acta</i> , 2019, 295, 410-417.	2.6	15
1350	Novel hierarchical ferric phosphate/bismuth vanadate nanocactus for highly efficient and stable solar water splitting. <i>Applied Catalysis B: Environmental</i> , 2019, 243, 657-666.	10.8	50

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1352	Boosting the Performance of BiVO <sub>4</sub> Prepared through Alkaline Electrodeposition with an Amorphous Fe Co-Catalyst. <i>ChemElectroChem</i> , 2019, 6, 613-617.	1.7	7
1353	Improving the photoelectrochemical catalytic ability of bismuth vanadate electrodes by depositing efficient Co-catalysts. <i>Electrochimica Acta</i> , 2019, 295, 507-513.	2.6	27
1354	Facile synthesis of Pt-In <sub>2</sub> O <sub>3</sub> /BiVO <sub>4</sub> nanospheres with improved visible-light photocatalytic activity. <i>Journal of Alloys and Compounds</i> , 2019, 775, 542-548.	2.8	77
1355	Metal Oxide/(oxy)hydroxide Overlayers as Hole Collectors and Oxygen-Evolution Catalysts on Water-Splitting Photoanodes. <i>Journal of the American Chemical Society</i> , 2019, 141, 1394-1405.	6.6	128
1356	Microstructure and photocatalytic performance of BiVO <sub>4</sub> prepared by hydrothermal method. <i>Journal of Alloys and Compounds</i> , 2019, 781, 56-63.	2.8	78
1357	Three-Dimensional Decoupling Co-Catalyst from a Photoabsorbing Semiconductor as a New Strategy To Boost Photoelectrochemical Water Splitting. <i>Nano Letters</i> , 2019, 19, 455-460.	4.5	52
1358	Hierarchical growth of a novel Mn-Bi coupled BiVO <sub>4</sub> arrays for enhanced photoelectrochemical water splitting. <i>Nano Research</i> , 2019, 12, 575-580.	5.8	21
1359	Boosting Photoelectrochemical Water Oxidation with Cobalt Phosphide Nanosheets on Porous BiVO <sub>4</sub> . <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 769-778.	3.2	36
1360	Hierarchical organization of perylene bisimides and polyoxometalates for photo-assisted water oxidation. <i>Nature Chemistry</i> , 2019, 11, 146-153.	6.6	132
1361	Fabrication of robust nanostructured (Zr)BiVO <sub>4</sub> /nickel hexacyanoferrate core/shell photoanodes for solar water splitting. <i>Applied Catalysis B: Environmental</i> , 2019, 244, 863-870.	10.8	40
1362	Charge transportation at cascade energy structure interfaces of CuIn <sub>x</sub> Ga <sub>1-x</sub> Se <sub>y</sub> S <sub>2-y</sub> /CdS/ZnS for spontaneous water splitting. <i>Electrochimica Acta</i> , 2019, 297, 633-640.	2.6	11
1363	An efficient tandem photoelectrochemical cell composed of FeOOH/TiO <sub>2</sub> /BiVO <sub>4</sub> and Cu <sub>2</sub> O for self-driven solar water splitting. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 594-604.	3.8	41
1364	Rationally Designed Copper-Modified Polymeric Carbon Nitride as a Photocathode for Solar Water Splitting. <i>ChemSusChem</i> , 2019, 12, 866-872.	3.6	26
1365	Decorating (001) dominant anatase TiO <sub>2</sub> nanoflakes array with uniform WO <sub>3</sub> clusters for enhanced photoelectrochemical water decontamination. <i>Catalysis Today</i> , 2019, 335, 365-371.	2.2	21
1366	Photocatalytic Nanoheterostructures and Chemically Bonded Junctions Made by Solution-Based Approaches. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2019, 44, 239-263.	6.8	13
1367	Understanding the Roles of NiO in Enhancing the Photoelectrochemical Performance of BiVO <sub>4</sub> Photoanodes for Solar Water Splitting. <i>ChemSusChem</i> , 2019, 12, 2022-2028.	3.6	31
1368	Turning the unwanted surface bismuth enrichment to favourable BiVO <sub>4</sub> /BiOCl heterojunction for enhanced photoelectrochemical performance. <i>Applied Catalysis B: Environmental</i> , 2019, 241, 506-513.	10.8	84

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1370	In-situ anchoring Ag through organic polymer for configuring efficient plasmonic BiVO <sub>4</sub> photoanode. <i>Chemical Engineering Journal</i> , 2019, 358, 658-665.	6.6	81
1371	Dynamic behavior of BiVO <sub>4</sub> material under mechanical studies. <i>Journal of Alloys and Compounds</i> , 2019, 774, 651-655.	2.8	4
1372	Synthesis and characterization of Ag-ligand modified polyoxovanadates with three-dimensional structures. <i>Journal of Solid State Chemistry</i> , 2019, 269, 278-284.	1.4	11
1373	Ultra-thin Al <sub>2</sub> O <sub>3</sub> coatings on BiVO <sub>4</sub> photoanodes: Impact on performance and charge carrier dynamics. <i>Catalysis Today</i> , 2019, 321-322, 59-66.	2.2	28
1374	Hydrogen treatment and FeOOH overlayer: Effective approaches for enhancing the photoelectrochemical water oxidation performance of bismuth vanadate thin films. <i>Catalysis Today</i> , 2019, 321-322, 87-93.	2.2	7
1375	Highly efficient photocatalytic conversion of solar energy to hydrogen by WO <sub>3</sub> /BiVO <sub>4</sub> core-shell heterojunction nanorods. <i>Applied Nanoscience (Switzerland)</i> , 2019, 9, 1017-1024.	1.6	24
1376	Photocatalytic H <sub>2</sub> production over inverse opal TiO <sub>2</sub> catalysts. <i>Catalysis Today</i> , 2019, 321-322, 113-119.	2.2	29
1377	Sensitizing effects of BiVO <sub>4</sub> and visible light induced production of highly reductive electrons in the TiO <sub>2</sub> /BiVO <sub>4</sub> heterojunction. <i>Catalysis Today</i> , 2020, 340, 19-25.	2.2	30
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1379	Fabrication of large size nanoporous BiVO <sub>4</sub> photoanode by a printing-like method for efficient solar water splitting application. <i>Catalysis Today</i> , 2020, 340, 145-151.	2.2	18
1380	Recent Development of Ni/Fe-Based Micro/Nanostructures toward Photo/Electrochemical Water Oxidation. <i>Advanced Energy Materials</i> , 2020, 10, 1900954.	10.2	358
1381	Three-dimensional Cu <sub>2</sub> O nanorods modified by hydrogen treated Ti <sub>3</sub> C <sub>2</sub> TX MXene with enriched oxygen vacancies as a photocathode and a tandem cell for unassisted solar water splitting. <i>Chemical Engineering Journal</i> , 2020, 381, 122001.	6.6	57
1382	Coupling efficient biomass upgrading with H <sub>2</sub> production via bifunctional Cu <sub>x</sub> S@NiCo-LDH core-shell nanoarray electrocatalysts. <i>Journal of Materials Chemistry A</i> , 2020, 8, 1138-1146.	5.2	132
1383	3D CQDs-{001}TiO <sub>2</sub> /Ti photoelectrode with dominant {001} facets: Efficient visible-light-driven photoelectrocatalytic oxidation of organic pollutants and mechanism insight. <i>Applied Catalysis B: Environmental</i> , 2020, 261, 118229.	10.8	40
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1385	Photoelectrochemical evaluation of SILAR-deposited nanoporous BiVO <sub>4</sub> photoanodes for solar-driven water splitting. <i>Nano Materials Science</i> , 2020, 2, 227-234.	3.9	14
1386	Photoelectrochemical sewage treatment by a multifunctional g-C <sub>3</sub> N <sub>4</sub> /Ag/AgCl/BiVO <sub>4</sub> photoanode for the simultaneous degradation of emerging pollutants and hydrogen production, and the disinfection of E. Coli. <i>Water Research</i> , 2020, 168, 115166.	5.3	58

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1388	Cubic SiC Photoanode Coupling with Ni:FeOOH Oxygen Evolution Cocatalyst for Sustainable Photoelectrochemical Water Oxidation. <i>Solar Rrl</i> , 2020, 4, 1900364.	3.1	16
1389	Increasing Charge Separation Property and Water Oxidation Activity of BiVO <sub>4</sub> Photoanodes via a Postsynthetic Treatment. <i>Journal of Physical Chemistry C</i> , 2020, 124, 1337-1345.	1.5	12
1390	Recent Progress and Development in Inorganic Halide Perovskite Quantum Dots for Photoelectrochemical Applications. <i>Small</i> , 2020, 16, e1903398.	5.2	120
1391	Enhanced photoelectrocatalytic degradation of bisphenol a by BiVO <sub>4</sub> photoanode coupling with peroxymonosulfate. <i>Journal of Hazardous Materials</i> , 2020, 394, 121105.	6.5	55
1392	Hierarchical WO <sub>3</sub> @ BiVO <sub>4</sub> nanostructures for improved green energy production. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 1183-1190.	1.6	15
1393	Enhanced visible-light-driven hydrogen evolution of ultrathin narrow-band-gap g-C <sub>3</sub> N <sub>4</sub> nanosheets. <i>Journal of Materials Science</i> , 2020, 55, 2118-2128.	1.7	14
1394	Tuning surface electronegativity of BiVO <sub>4</sub> photoanodes toward high-performance water splitting. <i>Applied Catalysis B: Environmental</i> , 2020, 262, 118267.	10.8	77
1395	Synergistic effects of dual-electrocatalyst FeOOH/NiOOH thin films as effective surface photogenerated hole extractors on a novel hierarchical heterojunction photoanode structure for solar-driven photoelectrochemical water splitting. <i>Chemical Engineering Journal</i> , 2020, 380, 122501.	6.6	30
1396	Rationally designed/assembled hybrid BiVO <sub>4</sub> -based photoanode for enhanced photoelectrochemical performance. <i>Applied Catalysis B: Environmental</i> , 2020, 260, 118136.	10.8	69
1397	Green Photocatalysts for Energy and Environmental Process. <i>Environmental Chemistry for A Sustainable World</i> , 2020, , .	0.3	8
1398	Fully blossomed WO <sub>3</sub> /BiVO <sub>4</sub> structure obtained via active facet engineering of patterned FTO for highly efficient Water splitting. <i>Applied Catalysis B: Environmental</i> , 2020, 263, 118362.	10.8	44
1399	Surface Polarity Induced Spatial Charge Separation Boosts Photocatalytic Overall Water Splitting on GaN Nanorod Arrays. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 935-942.	7.2	89
1400	Trimetallic oxyhydroxide modified 3D coral-like BiVO <sub>4</sub> photoanode for efficient solar water splitting. <i>Chemical Engineering Journal</i> , 2020, 384, 123323.	6.6	30
1401	Surface Polarity Induced Spatial Charge Separation Boosts Photocatalytic Overall Water Splitting on GaN Nanorod Arrays. <i>Angewandte Chemie</i> , 2020, 132, 945-952.	1.6	22
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1411	Porous $\beta$ -Bi <sub>2</sub> O <sub>3</sub> with multiple vacancy associates on highly exposed active {220} facets for enhanced photocatalytic activity. Applied Catalysis B: Environmental, 2020, 265, 118563.	10.8	62
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1413	A photoelectrochemical supercapacitor based on a single BiVO <sub>4</sub> -RGO bilayer photocapacitive electrode. Electrochimica Acta, 2020, 329, 135170.	2.6	22
1414	Photocatalysis: an overview of recent developments and technological advancements. Science China Chemistry, 2020, 63, 149-181.	4.2	107
1415	Activating a hematite nanorod photoanode <i>via</i> fluorine-doping and surface fluorination for enhanced oxygen evolution reaction. Nanoscale, 2020, 12, 3259-3266.	2.8	40
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1443	A BiVO <sub>4</sub> photoanode grown on porous and conductive SnO <sub>2</sub> ceramics for water splitting driven by solar energy. <i>Ceramics International</i> , 2020, 46, 9040-9049.	2.3	14
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1448	A highly efficient photocatalytic methanol fuel cell based on non-noble metal photoelectrodes: Study on its energy band engineering via experimental and density functional theory method. <i>Journal of Power Sources</i> , 2020, 478, 228756.	4.0	19
1449	Atomic Layer Deposition Seeded Growth of Rutile SnO <sub>2</sub> Nanowires on Versatile Conducting Substrates. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 48486-48494.	4.0	16
1450	Photosynthesis Z-Scheme biomimicry: Photosystem I/BiVO <sub>4</sub> photo-bioelectrochemical cell for donor-free bias-free electrical power generation. <i>Biosensors and Bioelectronics</i> , 2020, 168, 112517.	5.3	12
1451	Direct growth of dual-faceted BiVO <sub>4</sub> microcrystals on FTO-coated glass for photoelectrochemical water oxidation. <i>Optik</i> , 2020, 224, 165516.	1.4	6
1452	Solar-Driven Electrochemical CO <sub>2</sub> Reduction with Heterogeneous Catalysts. <i>Advanced Energy Materials</i> , 2021, 11, 2002652.	10.2	67
1453	Interface modulation of BiVO <sub>4</sub> based photoanode with Bi(III)Bi(V)O <sub>4</sub> for enhanced solar water splitting. <i>Journal of Catalysis</i> , 2020, 391, 513-521.	3.1	12
1454	The role of carbon dots " derived underlayer in hematite photoanodes. <i>Nanoscale</i> , 2020, 12, 20220-20229.	2.8	9
1455	Unveiling the Activity and Stability Origin of BiVO <sub>4</sub> Photoanodes with FeNi Oxyhydroxides for Oxygen Evolution. <i>Angewandte Chemie</i> , 2020, 132, 19152-19157.	1.6	11
1456	Molybdenum defect complexes in bismuth vanadate. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 16277-16285.	1.3	2
1457	Dual-bonding interactions between MnO <sub>2</sub> cocatalyst and TiO <sub>2</sub> photoanodes for efficient solar water splitting. <i>Applied Catalysis B: Environmental</i> , 2020, 267, 118723.	10.8	47
1458	Improved hole extraction and durability of BiVO <sub>4</sub> photoanode for solar water splitting under extreme pH condition. <i>Chemical Engineering Journal</i> , 2020, 402, 126227.	6.6	18



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1460	Hybrid cocatalysts in semiconductor-based photocatalysis and photoelectrocatalysis. <i>Journal of Materials Chemistry A</i> , 2020, 8, 14863-14894.	5.2	115
1461	Heterojunction Photocatalysts Based on 2D Materials: The Role of Configuration. <i>Advanced Sustainable Systems</i> , 2020, 4, 2000130.	2.7	120
1462	Unveiling the Activity and Stability Origin of BiVO <sub>4</sub> Photoanodes with FeNi Oxyhydroxides for Oxygen Evolution. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 18990-18995.	7.2	129
1463	Sunlight Selective Photodeposition of CoO <sub>x</sub> (OH) <sub>y</sub> and NiO <sub>x</sub> (OH) <sub>y</sub> on Truncated Bipyramidal BiVO <sub>4</sub> for Highly Efficient Photocatalysis. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 53910-53920.	4.0	16
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1465	Manganese-based oxygen evolution catalysts boosting stable solar-driven water splitting: MnSe as an intermetallic phase. <i>Journal of Materials Chemistry A</i> , 2020, 8, 25298-25305.	5.2	28
1466	Enhancing Solar Water Splitting of Textured BiVO <sub>4</sub> by Dual Effect of a Plasmonic Silver Nanoshell: Plasmon-Induced Light Absorption and Enhanced Hole Transport. <i>ACS Applied Energy Materials</i> , 2020, 3, 11886-11892.	2.5	6
1467	Tracking the Local Structure Change during the Photoabsorption Processes of Photocatalysts by the Ultrafast Pump-Probe XAFS Method. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7818.	1.3	4
1468	Decoupling Strategy for Enhanced Syngas Generation from Photoelectrochemical CO <sub>2</sub> Reduction. <i>IScience</i> , 2020, 23, 101390.	1.9	19
1469	A simple flame strategy for constructing W-doped BiVO <sub>4</sub> photoanodes with enhanced photoelectrochemical water splitting. <i>International Journal of Energy Research</i> , 2020, 44, 10821-10831.	2.2	8
1470	Cobalt doped BiVO <sub>4</sub> with rich oxygen vacancies for efficient photoelectrochemical water oxidation. <i>RSC Advances</i> , 2020, 10, 28523-28526.	1.7	22
1471	Self-assembly synthesis of monodisperse BiVO <sub>4</sub> nanosphere via a hybrid strategy for photoelectrochemical water splitting. <i>ChemCatChem</i> , 2020, 12, 5269-5275.	1.8	2
1472	Separating bulk and surface processes in NiO <sub>x</sub> electrocatalysts for water oxidation. <i>Sustainable Energy and Fuels</i> , 2020, 4, 5024-5030.	2.5	26
1473	Surface Modification of Hematite Photoanodes with CeO <sub>x</sub> Cocatalyst for Improved Photoelectrochemical Water Oxidation Kinetics. <i>ChemSusChem</i> , 2020, 13, 5489-5496.	3.6	16
1474	Solar-enhanced hybrid lithium-ion oxygen batteries with a low voltage and superior long-life stability. <i>Chemical Communications</i> , 2020, 56, 13642-13645.	2.2	15
1475	Metallic Woodpile Nanostructures for Femtomolar Sensing of Alzheimer's Neurofilament Lights. <i>ACS Nano</i> , 2020, 14, 10376-10384.	7.3	10
1476	Improved water oxidation performance of ultra-thin planar hematite photoanode: Synergistic effect of In/Sn doping and an overlayer of metal oxyhydroxides. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 401, 112781.	2.0	2

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1478	Nanostructured Ni:BiVO <sub>4</sub> photoanode in photoelectrochemical water splitting for hydrogen generation. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 26746-26757.	3.8	22
1479	Remarkable Influence of $\hat{\pm}$ -SnWO <sub>4</sub> Exposed Facets on Their Photocatalytic Performance for H <sub>2</sub> and O <sub>2</sub> Evolution Reactions. <i>Journal of Physical Chemistry C</i> , 2020, 124, 18684-18689.	1.5	11
1480	Ligand Effects of Penta- and Hexacyanidoferrate-Derived Water Oxidation Catalysts on BiVO <sub>4</sub> Photoanodes. <i>ACS Applied Energy Materials</i> , 2020, 3, 8448-8456.	2.5	13
1481	Nitrate Radical Facilitates Indirect Benzyl Alcohol Oxidation on Bismuth(III) Vanadate Photoelectrodes. <i>ChemElectroChem</i> , 2020, 7, 3776-3782.	1.7	10
1482	Energy-Inexpensive Galvanic Deposition of BiOI on Electrodes and Its Conversion to 3D Porous BiVO <sub>4</sub> -Based Photoanode. <i>Journal of Physical Chemistry C</i> , 2020, 124, 18930-18945.	1.5	9
1483	Preparation and photoelectrochemical properties of BiFeO <sub>3</sub> /BiOI composites. <i>RSC Advances</i> , 2020, 10, 26658-26663.	1.7	12
1484	Hydroxyl Radical Suppression during Photoelectrocatalytic Water Oxidation on WO <sub>3</sub>   FeOOH. <i>Journal of Physical Chemistry C</i> , 2020, 124, 17957-17963.	1.5	11
1485	Vertically aligned ZnO/In <sub>2</sub> S <sub>3</sub> core/shell heterostructures with enhanced photoelectrochemical properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 15773-15784.	1.1	5
1486	Metal Silicidation in Conjunction with Dopant Segregation: A Promising Strategy for Fabricating High-Performance Silicon-Based Photoanodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 39092-39097.	4.0	10
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1488	Synthesis of narrow-band curled carbon nitride nanosheets with high specific surface area for hydrogen evolution from water splitting by low-temperature aqueous copolymerization to form copolymers. <i>RSC Advances</i> , 2020, 10, 28848-28855.	1.7	13
1489	High-performance and stable photoelectrochemical water splitting cell with organic-photoactive-layer-based photoanode. <i>Nature Communications</i> , 2020, 11, 5509.	5.8	103
1490	Functions of MnOx in NaCl Aqueous Solution for Artificial Photosynthesis. <i>IScience</i> , 2020, 23, 101540.	1.9	12
1491	Cu <sub>2</sub> O/ZnO p-n Junction Decorated with NiO <sub>x</sub> as a Protective Layer and Cocatalyst for Enhanced Photoelectrochemical Water Splitting. <i>ACS Applied Energy Materials</i> , 2020, 3, 10408-10414.	2.5	40
1492	Boosting Hole Transfer in the Fluorine-Doped Hematite Photoanode by Depositing Ultrathin Amorphous FeOOH/CoOOH Cocatalysts. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 49705-49712.	4.0	76
1493	p-CuInS <sub>2</sub> /n-Polymer Semiconductor Heterojunction for Photoelectrochemical Hydrogen Evolution. <i>ChemSusChem</i> , 2020, 13, 6651-6659.	3.6	8
1494	Surface metal valence state regulating on hematite to weaken dependence of charge transport to catalyst loading. <i>Nano Energy</i> , 2020, 78, 105396.	8.2	5

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1496	Charge-Carrier Dynamics at the CuWO <sub>4</sub> /Electrocatalyst Interface for Photoelectrochemical Water Oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 50592-50599.	4.0	10
1497	Bismuth-based photocatalysts for solar energy conversion. <i>Journal of Materials Chemistry A</i> , 2020, 8, 24307-24352.	5.2	200
1498	Direct growth of m-BiVO <sub>4</sub> @carbon fibers for highly efficient and recyclable photocatalytic and antibacterial applications. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020, 213, 112070.	1.7	19
1499	Evaluation of Photocatalysts for Water Splitting through Combined Analysis of Surface Coverage and Energy-Level Alignment. <i>ACS Catalysis</i> , 2020, 10, 13186-13195.	5.5	19
1500	Surface Recombination Passivation of the BiVO <sub>4</sub> Photoanode by the Synergistic Effect of the Cobalt/Nickel Sulfide Cocatalyst. <i>ACS Applied Energy Materials</i> , 2020, 3, 9089-9097.	2.5	26
1501	Yttrium-Induced Regulation of Electron Density in NiFe Layered Double Hydroxides Yields Stable Solar Water Splitting. <i>ACS Catalysis</i> , 2020, 10, 10570-10576.	5.5	66
1502	Stable Cocatalyst-Free BiVO <sub>4</sub> Photoanodes with Passivated Surface States for Photocorrosion Inhibition. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 23094-23099.	7.2	154
1503	Stable Cocatalyst-Free BiVO <sub>4</sub> Photoanodes with Passivated Surface States for Photocorrosion Inhibition. <i>Angewandte Chemie</i> , 2020, 132, 23294-23299.	1.6	19
1504	Modulating Surface/Interface Structure of Emerging InGaN Nanowires for Efficient Photoelectrochemical Water Splitting. <i>Advanced Functional Materials</i> , 2020, 30, 2005677.	7.8	51
1505	Direct growth of uniform carbon nitride layers with extended optical absorption towards efficient water-splitting photoanodes. <i>Nature Communications</i> , 2020, 11, 4701.	5.8	87
1506	Cu <sub>3</sub> Mo <sub>2</sub> O <sub>9</sub> /BiVO <sub>4</sub> Heterojunction Films with Integrated Thermodynamic and Kinetic Advantages for Solar Water Oxidation. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 14082-14090.	3.2	21
1507	Facile fabrication of fibrous Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> /Bi <sub>2</sub> S <sub>3</sub> /MoS <sub>2</sub> with enhanced photocatalytic activities towards pollutant degradation under visible light irradiation. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 17688-17702.	1.1	7
1508	Tailoring the Surface Properties of Bi <sub>2</sub> O <sub>2</sub> NCN by <i>in Situ</i> Activation for Augmented Photoelectrochemical Water Oxidation on WO <sub>3</sub> and CuWO <sub>4</sub> Heterojunction Photoanodes. <i>Inorganic Chemistry</i> , 2020, 59, 13589-13597.	1.9	7
1509	Direct Identification of Antisite Cation Intermixing and Correlation with Electronic Conduction in CuBi <sub>2</sub> O <sub>4</sub> for Photocathodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 43720-43727.	4.0	10
1510	Identifying Performance-Limiting Deep Traps in Ta <sub>3</sub> N <sub>5</sub> for Solar Water Splitting. <i>ACS Catalysis</i> , 2020, 10, 10316-10324.	5.5	68
1511	Facet-Heterojunction-Based Z-Scheme BiVO <sub>4</sub> {010} Microplates Decorated with AgBr-Ag Nanoparticles for the Photocatalytic Inactivation of Bacteria and the Decomposition of Organic Contaminants. <i>ACS Applied Nano Materials</i> , 2020, 3, 8604-8617.	2.4	33
1512	Selective CO Production by Photoelectrochemical CO <sub>2</sub> Reduction in an Aqueous Solution with Cobalt-Based Molecular Redox Catalysts. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 41644-41648.	4.0	13

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1514	Highly efficient hamburger-like nanostructure of a triadic Ag/Co <sub>3</sub> O <sub>4</sub> /BiVO <sub>4</sub> photoanode for enhanced photoelectrochemical water oxidation. <i>RSC Advances</i> , 2020, 10, 45067-45075.	1.7	11
1515	All-in-One, Solid-State, Solar-Powered Electrochemical Cell. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 57182-57189.	4.0	6
1516	Lignin-controlled photocatalyst of porous BiVO <sub>4</sub> -C nanocomposite for enhancing photocatalytic activity toward pollutant under visible-light. <i>Applied Surface Science</i> , 2020, 523, 146401.	3.1	17
1517	Type-II Heterostructure of ZnO and Carbon Dots Demonstrates Enhanced Photoanodic Performance in Photoelectrochemical Water Splitting. <i>Inorganic Chemistry</i> , 2020, 59, 6988-6999.	1.9	35
1518	Unveiling the Effects of Nanostructures and Core Materials on Charge-Transport Dynamics in Heterojunction Electrodes for Photoelectrochemical Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 21894-21902.	4.0	9
1519	Surface Engineering of WO <sub>3</sub> /BiVO <sub>4</sub> to Boost Solar Water-Splitting. <i>Catalysts</i> , 2020, 10, 556.	1.6	3
1520	An <i>in situ</i> combustion method for scale-up fabrication of BiVO <sub>4</sub> photoanodes with enhanced long-term photostability for unassisted solar water splitting. <i>Journal of Materials Chemistry A</i> , 2020, 8, 10989-10997.	5.2	25
1521	Advancement of Platinum (Pt)-Free (Non-Pt Precious Metals) and/or Metal-Free (Non-Precious-Metals) Electrocatalysts in Energy Applications: A Review and Perspectives. <i>Energy &amp; Fuels</i> , 2020, 34, 6634-6695.	2.5	100
1522	Recent Advancement of $\pi$ - and $\delta$ -Block Elements, Single Atoms, and Graphene-Based Photoelectrochemical Electrodes for Water Splitting. <i>Advanced Energy Materials</i> , 2020, 10, 2000280.	10.2	88
1523	Photoelectrochemical Decomposition of Lignin Model Compound on a BiVO <sub>4</sub> Photoanode. <i>ChemSusChem</i> , 2020, 13, 3622-3626.	3.6	17
1524	All-Solution-Processed BiVO <sub>4</sub> /TiO <sub>2</sub> Photoanode with NiCo <sub>2</sub> O <sub>4</sub> Nanofiber Cocatalyst for Enhanced Solar Water Oxidation. <i>ACS Applied Energy Materials</i> , 2020, 3, 5646-5656.	2.5	23
1525	Integration of Oxygen-Vacancy-Rich NiFe Layered Double Hydroxide onto Silicon as Photoanode for Enhanced Photoelectrochemical Water Oxidation. <i>ChemSusChem</i> , 2020, 13, 3893-3900.	3.6	17
1526	Generalized Synthesis to Produce Transparent Thin Films of Ternary Metal Oxide Photoelectrodes. <i>ChemSusChem</i> , 2020, 13, 3645-3653.	3.6	10
1527	A cobalt silicate modified BiVO <sub>4</sub> photoanode for efficient solar water oxidation. <i>Applied Catalysis B: Environmental</i> , 2020, 277, 119189.	10.8	67
1528	Promoted photoelectrocatalytic degradation of BPA with peroxymonosulfate on a MnFe <sub>2</sub> O <sub>4</sub> modified carbon paper cathode. <i>Chemical Engineering Journal</i> , 2020, 399, 125088.	6.6	64
1529	Modification of BiVO <sub>4</sub> with partially covered $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> spindles serving as hole-transport channels for significantly improved photoelectrochemical performance. <i>Chemical Engineering Journal</i> , 2020, 398, 125662.	6.6	35
1530	Ex-situ flame co-doping of tin and tungsten ions in TiO <sub>2</sub> nanorod arrays for synergistic promotion of solar water splitting. <i>Chemical Engineering Science</i> , 2020, 226, 115843.	1.9	44

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1532	Tuning the oxygen evolution reaction activity of Ni- and Co-modified Fe(OH) <sub>2</sub> electrodes through structure and composition control. International Journal of Hydrogen Energy, 2020, 45, 17076-17087.	3.8	11
1533	A Macroporous-Structured WO <sub>3</sub> /Mo-Doped BiVO <sub>4</sub> Photoanode for Vapor-Fed Water Splitting under Visible Light Irradiation. ACS Sustainable Chemistry and Engineering, 2020, 8, 9456-9463.	3.2	29
1534	Degradation of organics with simultaneous recovery of silver in a simple visible-light responsive dual photoelectrode photocatalytic fuel cell. Environmental Science: Water Research and Technology, 2020, 6, 1869-1879.	1.2	4
1535	In Situ Formation of Oxygen Vacancies Achieving Near-Complete Charge Separation in Planar BiVO <sub>4</sub> Photoanodes. Advanced Materials, 2020, 32, e2001385.	11.1	236
1536	Reversible electron storage in tandem photoelectrochemical cell for light driven unassisted overall water splitting. Applied Catalysis B: Environmental, 2020, 275, 119094.	10.8	37
1537	Highly Durable Oxygen Evolution Reaction Catalyst: Amorphous Oxyhydroxide Derived from Brownmillerite-Type Ca <sub>2</sub> FeCoO <sub>5</sub> . ACS Applied Energy Materials, 2020, 3, 5269-5276.	2.5	10
1538	Formation of Mo <sub>2</sub> C/hollow tubular g-C <sub>3</sub> N <sub>4</sub> hybrids with favorable charge transfer channels for excellent visible-light-photocatalytic performance. Applied Surface Science, 2020, 527, 146757.	3.1	56
1539	Yolk-shell structured Bi <sub>2</sub> SiO <sub>5</sub> :Yb <sup>3+</sup> ,Ln <sup>3+</sup> (Ln = Er, Ho) Tj ETQq0 0 0 rgBT /Overl 2020, 22, 4438-4448.	1.3	31
1540	Multifunctional nanostructures of Au@Bi <sub>2</sub> O <sub>3</sub> fractals for CO <sub>2</sub> reduction and optical sensing. Journal of Materials Chemistry A, 2020, 8, 11233-11245.	5.2	25
1541	Enhanced photocatalytic destruction of pollutants by surface W vacancies in VW-Bi <sub>2</sub> WO <sub>6</sub> under visible light. Journal of Colloid and Interface Science, 2020, 576, 385-393.	5.0	23
1542	Well-Crystallized ±-FeOOH Cocatalysts Modified BiVO <sub>4</sub> Photoanodes for Efficient and Stable Photoelectrochemical Water Splitting. ACS Applied Energy Materials, 2020, 3, 5927-5936.	2.5	47
1543	Photoelectrochemical hydrogen production (PEC H <sub>2</sub> )., 2020, , 255-289.		2
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1545	Physical Insights into Band Bending in Pristine and Co-Pi-Modified BiVO <sub>4</sub> Photoanodes with Dramatically Enhanced Solar Water Splitting Efficiency. Journal of Physical Chemistry Letters, 2020, 11, 5015-5020.	2.1	16
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1547	Identifying dual functions of rGO in a BiVO <sub>4</sub> /rGO/NiFe-layered double hydroxide photoanode for efficient photoelectrochemical water splitting. Journal of Materials Chemistry A, 2020, 8, 13231-13240.	5.2	48
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1550	<i>In situ</i> growth of Fe <sub>2</sub> WO <sub>6</sub> on WO <sub>3</sub> nanosheets to fabricate heterojunction arrays for boosting solar water splitting. Journal of Chemical Physics, 2020, 152, 214704.	1.2	19
1551	MoS <sub>2</sub> /NiS heterostructure grown on Nickel Foam as highly efficient bifunctional electrocatalyst for overall water splitting. International Journal of Hydrogen Energy, 2020, 45, 17329-17338.	3.8	26
1552	Solar-Assisted eBiorefinery: Photoelectrochemical Pairing of Oxyfunctionalization and Hydrogenation Reactions. Angewandte Chemie, 2020, 132, 16020-16024.	1.6	6
1553	Bi electrodeposition on WO <sub>3</sub> photoanode to improve the photoactivity of the WO <sub>3</sub> /BiVO <sub>4</sub> heterostructure to water splitting. Chemical Engineering Journal, 2020, 399, 125836.	6.6	41
1554	BiVO <sub>4</sub> Photoanode Modification by In-Doping and Anoxic Annealing by Synergistic Regulation. ACS Sustainable Chemistry and Engineering, 2020, 8, 9184-9194.	3.2	18
1555	Mildly regulated intrinsic faradaic layer at the oxide/water interface for improved photoelectrochemical performance. Chemical Science, 2020, 11, 6297-6304.	3.7	15
1556	Can the phase-pure BiVO <sub>4</sub> (010) epitaxial film be fabricated with a stoichiometric target?. Journal Physics D: Applied Physics, 2020, 53, 225103.	1.3	4
1557	Expanded light-absorption and efficient charge-separation: bilayered thin film nano-hetero-structures, CuO/Cu <sup>2+</sup> ZnO, make efficient photoanode in photoelectrochemical water splitting. Journal of Applied Electrochemistry, 2020, 50, 887-906.	1.5	10
1558	Photoelectrochemical water splitting with black Ni/Si-doped TiO <sub>2</sub> nanostructures. International Journal of Hydrogen Energy, 2020, 45, 20983-20992.	3.8	23
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1560	Reversible Charge Transfer and Adjustable Potential Window in Semiconductor/Faradaic Layer/Liquid Junctions. IScience, 2020, 23, 100949.	1.9	17
1561	Enhanced photoelectrocatalytic performance from size effects in pure and La-doped BiFeO <sub>3</sub> nanoparticles. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	1.1	6
1562	Pure CuBi <sub>2</sub> O <sub>4</sub> Photoelectrodes with Increased Stability by Rapid Thermal Processing of Bi <sub>2</sub> O <sub>3</sub> /CuO Grown by Pulsed Laser Deposition. Advanced Functional Materials, 2020, 30, 1910832.	7.8	54
1563	Fabrication of novel fibrous BiVO <sub>4</sub> /CdS heterostructures by electrospinning method for efficient visible light photodegradation. Materials Chemistry and Physics, 2020, 247, 122858.	2.0	15
1564	The Role of Surface Oxygen Vacancies in BiVO <sub>4</sub> . Chemistry of Materials, 2020, 32, 2899-2909.	3.2	108
1565	Near-Complete Suppression of Oxygen Evolution for Photoelectrochemical H <sub>2</sub> O Oxidative H <sub>2</sub> O <sub>2</sub> Synthesis. Journal of the American Chemical Society, 2020, 142, 8641-8648.	6.6	168
1566	Direct Growth of Bismuth Vanadate Thin Film Arrays on FTO via Galvanic Deposition Mediated by BiOI Nanosheets for Fabrication of Photoelectrochemical Non-Enzymatic Dopamine Sensing Platform. Journal of the Electrochemical Society, 2020, 167, 047513.	1.3	5

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1568	A generalized strategy for synthesizing crystalline bismuth-containing nanomaterials. <i>Nanoscale</i> , 2020, 12, 8277-8284.	2.8	6
1569	Patterning of BiVO <sub>4</sub> Surfaces and Monitoring of Localized Catalytic Activity Using Scanning Photoelectrochemical Microscopy. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 18065-18073.	4.0	11
1570	Zinc and Molybdenum Co-Doped BiVO <sub>4</sub> Nanoarray for Photoelectrochemical Diethylstilbestrol Analysis Based on the Dual-Competitive System of Manganese Hexacyanoferrate Hydrate Nanocubes. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 16662-16669.	4.0	27
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1751	Organic-inorganic photoelectrochemical sensor based on aza-cope rearrangement reaction for formaldehyde. <i>Sensors and Actuators B: Chemical</i> , 2021, 330, 129342.	4.0	7
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1807	Fabrication of fibrous BiVO <sub>4</sub> /Bi <sub>2</sub> S <sub>3</sub> /MoS <sub>2</sub> heterojunction and synergetic enhancement of photocatalytic activity towards pollutant degradation. <i>Journal of Solid State Chemistry</i> , 2021, 299, 122195.	1.4	18
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1812	Cu <sub>2</sub> S/BiVO <sub>4</sub> Heterostructure Photoanode with Extended Wavelength Range for Efficient Water Splitting. <i>Journal of Physical Chemistry C</i> , 2021, 125, 15890-15898.	1.5	9
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1823	FeOOH Modified H-TiO <sub>2</sub> Nanorods Array (NRA) for Stable and Improved Low-Bias Photoelectrochemical Water Splitting. <i>Journal of the Electrochemical Society</i> , 2021, 168, 086505.	1.3	1

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1838	Flame Spray Pyrolysis Engineering of Nanosized Mullite-Bi <sub>2</sub> Fe <sub>4</sub> O <sub>9</sub> and Perovskite-BiFeO <sub>3</sub> as Highly Efficient Photocatalysts for O <sub>2</sub> Production from H <sub>2</sub> O Splitting. Energies, 2021, 14, 5235.	1.6	11
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1843	Bismuth-based photocatalyst for photocatalytic oxidation of flue gas mercury removal: A review. <i>Journal of Hazardous Materials</i> , 2021, 418, 126280.	6.5	82
1844	Near-complete charge separation in tailored BiVO <sub>4</sub> -based heterostructure photoanodes toward artificial leaf. <i>Applied Catalysis B: Environmental</i> , 2021, 293, 120217.	10.8	57
1845	Fabrication of Zn <sub>x</sub> Co <sub>1-x</sub> O <sub>4</sub> /BiVO <sub>4</sub> photoelectrodes by electrostatic attraction from bimetallic Zn-Co-MOF for PEC activity. <i>Applied Surface Science</i> , 2021, 561, 150057.	3.1	21
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1857	Selective liquid chemicals on CO <sub>2</sub> reduction by energy level tuned rGO/TiO <sub>2</sub> dark cathode with BiVO <sub>4</sub> photoanode. <i>Applied Catalysis B: Environmental</i> , 2021, 295, 120267.	10.8	11
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1861	Cactus shaped FeOOH/Au/BiVO <sub>4</sub> photoanodes for efficient photoelectrochemical water splitting. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 35280-35289.	3.8	19
1862	Deposition of zinc cobaltite nanoparticles onto bismuth vanadate for enhanced photoelectrochemical water splitting. <i>Journal of Colloid and Interface Science</i> , 2021, 599, 453-466.	5.0	32
1863	Understanding photoelectrocatalytic degradation of tetracycline over three-dimensional coral-like ZnO/BiVO <sub>4</sub> nanocomposite. <i>Materials Chemistry and Physics</i> , 2021, 271, 124871.	2.0	40
1864	H <sub>2</sub> O <sub>2</sub> -assisted photocatalysis induced by SPR of BiQDs anchored on BiVO <sub>4</sub> for the production of hydroxyl radicals in seawater. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105973.	3.3	5
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1868	Bismuth based photoelectrodes for solar water splitting. <i>Journal of Energy Chemistry</i> , 2021, 61, 517-530.	7.1	47
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1871	Preparation and photocatalytic activity of novel PPy/GO/BiVO <sub>4</sub> nanocomposites. <i>Surface Review and Letters</i> , 0, , .	0.5	1
1872	Toward practical photoelectrochemical water splitting and CO <sub>2</sub> reduction using earth-abundant materials. <i>Journal of Energy Chemistry</i> , 2021, 61, 469-488.	7.1	27
1873	Hollow and substrate-supported Prussian blue, its analogs, and their derivatives for green water splitting. <i>Chinese Journal of Catalysis</i> , 2021, 42, 1843-1864.	6.9	19
1874	Bismuth oxyhalide based photo-enhanced triboelectric nanogenerators. <i>Nano Energy</i> , 2021, 89, 106419.	8.2	21
1875	Conversion of CO <sub>2</sub> to formic acid by integrated all-solar-driven artificial photosynthetic system. <i>Journal of Power Sources</i> , 2021, 512, 230532.	4.0	21
1876	The ClO <sub>2</sub> <sup>-</sup> generation and chlorate suppression in photoelectrochemical reactive chlorine species systems on BiVO <sub>4</sub> photoanodes. <i>Applied Catalysis B: Environmental</i> , 2021, 296, 120387.	10.8	24
1877	Localized surface plasmon-enhanced photoelectrochemical water oxidation by inorganic/organic nano-heterostructure comprising NDI-based D-A-D type small molecule. <i>Journal of Colloid and Interface Science</i> , 2021, 601, 803-815.	5.0	11

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1883	Solar-harvesting lead halide perovskite for artificial photosynthesis. <i>Journal of Energy Chemistry</i> , 2021, 62, 11-26.	7.1	14
1884	Triple-layer ITO/BiVO <sub>4</sub> /Fe <sub>2</sub> TiO <sub>5</sub> heterojunction photoanode coated with iron silicate for highly efficient solar water splitting. <i>Chemical Engineering Journal</i> , 2021, 426, 131290.	6.6	19
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1886	Tungsten induced defects control on BiVO <sub>4</sub> photoanodes for enhanced solar water splitting performance and photocorrosion resistance. <i>Applied Catalysis B: Environmental</i> , 2021, 298, 120610.	10.8	32
1887	Electrochemically reduced TiO <sub>2</sub> photoanode coupled with oxygen vacancy-rich carbon quantum dots for synergistically improving photoelectrochemical performance. <i>Chemical Engineering Journal</i> , 2021, 425, 131770.	6.6	53
1888	Nonmetal plasmonic TiN nanoparticles significantly boost photoelectrochemical performance for hydrogen evolution of CdS nanorod array photoanode. <i>Renewable Energy</i> , 2021, 180, 1290-1299.	4.3	12
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1891	CoFe prussian blue decorated BiVO <sub>4</sub> as novel photoanode for continuous photocathodic protection of 304 stainless steel. <i>Journal of Alloys and Compounds</i> , 2021, 887, 161279.	2.8	14
1892	A bridging coordination of urea tailoring metal hydroxides oxygen evolution catalysts promotes stable solar water splitting. <i>Chemical Engineering Journal</i> , 2021, 426, 131062.	6.6	21
1893	Yolk-shell ZnO@C-CeO <sub>2</sub> ternary heterostructures with conductive N-doped carbon mediated electron transfer for highly efficient water splitting. <i>Journal of Colloid and Interface Science</i> , 2022, 605, 23-32.	5.0	9
1894	Coral-like WO <sub>3</sub> /BiVO <sub>4</sub> photoanode constructed via morphology and facet engineering for antibiotic wastewater detoxification and hydrogen recovery. <i>Chemical Engineering Journal</i> , 2022, 428, 131817.	6.6	31
1895	Construction OD/2D heterojunction by highly dispersed Ag <sub>2</sub> S quantum dots (QDs) loaded on the g-C <sub>3</sub> N <sub>4</sub> nanosheets for photocatalytic hydrogen evolution. <i>Journal of Colloid and Interface Science</i> , 2022, 607, 662-675.	5.0	46



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1897	Amorphous NiSn and FeOOH as bifunctional co-catalysts for oxygen reduction and phenol (water) oxidation over BiVO <sub>4</sub> under visible light. <i>Journal of Hazardous Materials</i> , 2022, 421, 126650.	6.5	7
1898	The hydrophilic treatment of a novel co-catalyst for greatly improving the solar water splitting performance over Mo-doped bismuth vanadate. <i>Journal of Colloid and Interface Science</i> , 2022, 607, 219-228.	5.0	35
1899	Amorphous type FeOOH modified defective BiVO <sub>4</sub> photoanodes for photoelectrochemical water oxidation. <i>Chemical Engineering Journal</i> , 2022, 428, 131027.	6.6	204
1900	Strain Controlling Catalytic Efficiency of Water Oxidation for Ni <sup>1-x</sup> Fe <sub>x</sub> OOH Alloy. <i>Molecular Modeling and Simulation</i> , 2021, , 1-23.	0.2	1
1901	A self-supported FeNi layered double hydroxide anode with high activity and long-term stability for efficient oxygen evolution reaction. <i>Sustainable Energy and Fuels</i> , 2021, 5, 3205-3212.	2.5	3
1902	Improvement of photoelectrochemical HClO production under visible light irradiation by loading cobalt oxide onto a BiVO <sub>4</sub> photoanode. <i>Catalysis Science and Technology</i> , 2021, 11, 5467-5471.	2.1	13
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1904	Remarkable synergy of borate and interfacial hole transporter on BiVO <sub>4</sub> photoanodes for photoelectrochemical water oxidation. <i>Materials Advances</i> , 2021, 2, 4323-4332.	2.6	12
1905	Co-Fe-Cr (oxy)Hydroxides as Efficient Oxygen Evolution Reaction Catalysts. <i>Advanced Energy Materials</i> , 2021, 11, 2003412.	10.2	94
1906	Boosting the stability of BiVO <sub>4</sub> photoanodes: <i>in situ</i> cocatalyst passivation and immobilization by functional fluorine anions. <i>Journal of Materials Chemistry A</i> , 2021, 9, 6298-6305.	5.2	28
1907	A semitransparent particulate photoanode composed of SrTiO <sub>3</sub> powder anchored on titania nanosheets. <i>Sustainable Energy and Fuels</i> , 2021, 5, 4850-4857.	2.5	0
1908	Water oxidation kinetics of nanoporous BiVO <sub>4</sub> photoanodes functionalised with nickel/iron oxyhydroxide electrocatalysts. <i>Chemical Science</i> , 2021, 12, 7442-7452.	3.7	32
1909	Chemical reduction-induced surface oxygen vacancies of BiVO <sub>4</sub> photoanodes with enhanced photoelectrochemical performance. <i>Sustainable Energy and Fuels</i> , 2021, 5, 2284-2293.	2.5	21
1910	A significant enhancement of bulk charge separation in photoelectrocatalysis by ferroelectric polarization induced in CdS/BaTiO <sub>3</sub> nanowires. <i>RSC Advances</i> , 2021, 11, 26534-26545.	1.7	4
1911	The role of oxygen vacancies in the high cycling endurance and quantum conductance in BiVO <sub>4</sub> -based resistive switching memory. <i>Informa-Materi</i> , 2020, 2, 960-967.	8.5	21
1912	Highly efficient photoelectrochemical water splitting from P-doped $\Gamma$ -Fe <sub>2</sub> O <sub>3</sub> nanorod/BiVO <sub>4</sub> heterojunction array. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 10981-10988.	1.1	7
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1917	Electrochemical and photoelectrochemical water splitting with a CoO <sub>x</sub> catalyst prepared by flame assisted deposition. Dalton Transactions, 2020, 49, 588-592.	1.6	3
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1923	Photoelectrochemical solar water splitting: From basic principles to advanced devices. , 2018, 2, BDJOC3.		53
1924	Effects of Al <sub>2</sub> O <sub>3</sub> Coating on BiVO <sub>4</sub> and Mo-doped BiVO <sub>4</sub> Film for Solar Water Oxidation. Journal of Electrochemical Science and Technology, 2019, 10, 424-432.	0.9	5
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1933	Decoration of BiVO <sub>4</sub> Photoanodes with Near-Infrared Quantum Dots for Boosted Photoelectrochemical Water Oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 50046-50056.	4.0	15
1934	Integrating Computation and Experiment to Investigate Photoelectrodes for Solar Water Splitting at the Microscopic Scale. <i>Accounts of Chemical Research</i> , 2021, 54, 3863-3872.	7.6	7
1935	Suppressing photoinduced charge recombination at the BiVO <sub>4</sub>   NiOOH junction by sandwiching an oxygen vacancy layer for efficient photoelectrochemical water oxidation. <i>Journal of Colloid and Interface Science</i> , 2022, 608, 1116-1125.	5.0	19
1936	Fabrication of WO <sub>3</sub> based nanocomposites for the excellent photocatalytic energy production under visible light irradiation. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 39058-39066.	3.8	13
1937	Investigation of n-GaAs Photoanode Corrosion in Acidic Media with Various Thin Ir Cocatalyst Layers. <i>ACS Applied Energy Materials</i> , 2021, 4, 10799-10809.	2.5	2
1938	Spinel-Oxide-Integrated BiVO <sub>4</sub> Photoanodes with Photothermal Effect for Efficient Solar Water Oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 48901-48912.	4.0	21
1939	Phase-Controllable Growth Ni <sub>x</sub> P <sub>y</sub> Modified CdS@Ni <sub>3</sub> S <sub>2</sub> Electrodes for Efficient Electrocatalytic and Enhanced Photoassisted Electrocatalytic Overall Water Splitting. <i>Small Methods</i> , 2021, 5, e2100878.	4.6	37
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1941	Chlorine-enhanced photocatalytic degradation of PPCPs over Bi <sub>2</sub> MoO <sub>6</sub> /(BiO) <sub>2</sub> CO <sub>3</sub> heterostructures. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106597.	3.3	4
1942	Photoactive Semiconducting Oxides for Energy and Environment: Experimental and Theoretical Insights. , 2015, , 1-48.		0
1943	Design of a Monolithic Photoelectrochemical Tandem Cell for Solar Water Splitting with a Dye-sensitized Solar Cell and WO <sub>3</sub> /BiVO <sub>4</sub> Photoanode. <i>Rapid Communication in Photoscience</i> , 2015, 4, 82-85.	0.1	0
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1946	2 Devices for Solar-Driven Water Splitting to Hydrogen Fuel and Their Technical and Economic Assessments. , 2016, , 9-46.		0
1948	Photochemical Energy Storage. <i>Issues in Environmental Science and Technology</i> , 2018, , 184-209.	0.4	0
1949	Nano-configured Opto-electric Ceramic Systems for Photo-electrochemical Hydrogen Energy. , 2019, , 1-34.		0
1950	The Self-Passivation Mechanism in Degradation of BiVO <sub>4</sub> Photoanode. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
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1952	Carbon Quantum Dot Conjugated Copper(II) Phthalocyanine Integrating BiVO <sub>4</sub> Semiconductor for Photocatalytic Water Oxidation. Journal of Physical Chemistry C, 2021, 125, 24413-24421.	1.5	11
1953	Defective Metal-Organic Framework Assisted with Nitrogen Doping Enhances the Photoelectrochemical Performance of BiVO <sub>4</sub> . ACS Applied Energy Materials, 2021, 4, 13199-13207.	2.5	17
1954	Awakening the Photoelectrochemical Activity of BiWO <sub>4</sub> Photoanodes with Extraordinary Crystallinity Induced by Reductive Annealing. Advanced Energy and Sustainability Research, 2022, 3, 2100146.	2.8	11
1955	General In Situ Photoactivation Route with IPCE over 80% toward CdS Photoanodes for Photoelectrochemical Applications. Small, 2021, 17, e2104307.	5.2	7
1956	Nano-configured Opto-electric Ceramic Systems for Photo-electrochemical Hydrogen Energy. , 2020, , 1335-1368.		0
1957	A Water-Splitting System with a Cobalt (II,III) Oxide Co-Catalyst-Loaded Bismuth Vanadate Photoanode Along with an Organo-Photocathode. ChemElectroChem, 2020, 7, 5029-5035.	1.7	8
1958	Atomic layer deposition assisted surface passivation on bismuth vanadate photoanodes for enhanced solar water oxidation. Applied Surface Science, 2022, 573, 151492.	3.1	5
1959	Facile morphology control strategy to enhance charge separation efficiency of Mo:BiVO <sub>4</sub> photoanodes for efficient photoelectrochemical water splitting. Chemical Engineering Journal, 2022, 430, 133061.	6.6	40
1960	Construction double electric field of sulphur vacancies as medium ZnS/Bi <sub>2</sub> S <sub>3</sub> -PVDF self-supported recoverable piezoelectric film photocatalyst for enhanced photocatalytic performance. Applied Catalysis B: Environmental, 2022, 301, 120792.	10.8	51
1961	Chemically Bonded N-PDI-P/WO <sub>3</sub> Organic-Inorganic Heterojunction with Improved Photoelectrochemical Performance. Catalysts, 2020, 10, 122.	1.6	4
1962	Preparation and Photoelectrochemical Property of the Dual-ferroelectric Compositated Material. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2020, 35, 987.	0.6	0
1963	High-Throughput Computational Studies in Catalysis and Materials Research, and Their Impact on Rational Design. , 2020, , 1-44.		1
1964	Dual Roles of MoO <sub>3</sub> Thin Film in Improving the Performance of Copper Bismuth Oxide Photocathode for Solar Water Splitting. Journal of Electrochemical Energy Conversion and Storage, 2020, 17, .	1.1	0
1965	Anisotropic d-d Transition in Rutile TiO <sub>2</sub> . Journal of Physical Chemistry Letters, 2021, 12, 10515-10520.	2.1	5
1966	Oxygen vacancy-abundant carbon quantum dots as superfast hole transport channel for vastly improving surface charge transfer efficiency of BiVO <sub>4</sub> photoanode. Chemical Engineering Journal, 2022, 431, 133414.	6.6	36
1967	Covalent Grafting of Ruthenium Complexes on Iron Oxide Nanoparticles: Hybrid Materials for Photocatalytic Water Oxidation. ACS Applied Materials & Interfaces, 2021, 13, 53829-53840.	4.0	4
1968	Dual functions of heterometallic FeCo oxyhydroxides in borate-treated BiVO <sub>4</sub> photoanodes toward boosted activity and photostability in photoelectrochemical water oxidation. Chemical Engineering Journal, 2022, 431, 133379.	6.6	19
1969	Strengthened absorption of ultra-thin film bismuth vanadate using a motheye-structured triple-deck photoanode. Journal of Catalysis, 2020, 389, 38-46.	3.1	1

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1971	Interstitial M <sup>+</sup> (M <sup>+</sup> = Li <sup>+</sup> or Sn <sup>4+</sup> ) Doping at Interfacial BiVO <sub>4</sub> /WO <sub>3</sub> to Promote Photoelectrochemical Hydrogen Production. ACS Applied Energy Materials, 2021, 4, 13636-13645.	2.5	4
1972	Nitrogen-incorporation activates NiFeOx catalysts for efficiently boosting oxygen evolution activity and stability of BiVO <sub>4</sub> photoanodes. Nature Communications, 2021, 12, 6969.	5.8	109
1973	Engineering Single-Atomic Ni-N <sub>4</sub> -O Sites on Semiconductor Photoanodes for High-Performance Photoelectrochemical Water Splitting. Journal of the American Chemical Society, 2021, 143, 20657-20669.	6.6	114
1974	BiVO <sub>4</sub> Microparticles Decorated with Cu@Au Core-Shell Nanostructures for Photocatalytic H <sub>2</sub> O <sub>2</sub> Production. ACS Applied Nano Materials, 2021, 4, 13158-13166.	2.4	21
1975	Snow-like BiVO <sub>4</sub> with rich oxygen defects for efficient visible light photocatalytic degradation of ciprofloxacin. Science of the Total Environment, 2022, 808, 152083.	3.9	24
1976	Emerging materials for plasmon-assisted photoelectrochemical water splitting. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2022, 51, 100472.	5.6	44
1977	Boosting solar water oxidation activity of BiVO <sub>4</sub> photoanode through an efficient in-situ selective surface cation exchange strategy. Journal of Energy Chemistry, 2022, 68, 49-59.	7.1	32
1978	Photoelectrocatalytic C-H halogenation over an oxygen vacancy-rich TiO <sub>2</sub> photoanode. Nature Communications, 2021, 12, 6698.	5.8	68
1979	Constructing NiFe-metal-organic frameworks from NiFe-layered double hydroxide as a highly efficient cocatalyst for BiVO <sub>4</sub> photoanode PEC water splitting. Chemical Engineering Journal, 2022, 433, 133592.	6.6	43
1980	Constructing two-dimensional heterojunction through decorating covalent organic framework with MoS <sub>2</sub> for enhanced photoelectrochemical water oxidation. Journal of Environmental Chemical Engineering, 2022, 10, 106900.	3.3	6
1981	Integrated and Unassisted Solar Water-Splitting System by Monolithic Perovskite/Silicon Tandem Solar Cell. Solar Rrl, 2022, 6, 2100748.	3.1	8
1982	Ultrastable and high-performance seawater-based photoelectrolysis system for solar hydrogen generation. Applied Catalysis B: Environmental, 2022, 304, 120883.	10.8	39
1983	A Novel Strategy for Enhancing Photoelectrochemical Performance of Ca <sub>2</sub> Fe <sub>2</sub> O <sub>5</sub> Photocathodes: An Integrated Experimental and DFT-Based Approach. SSRN Electronic Journal, 0, , .	0.4	0
1984	Developing sustainable, high-performance perovskites in photocatalysis: design strategies and applications. Chemical Society Reviews, 2021, 50, 13692-13729.	18.7	97
1985	Recent advances in photo-assisted electrocatalysts for energy conversion. Journal of Materials Chemistry A, 2021, 9, 27193-27214.	5.2	19
1986	SILAR deposition of bismuth vanadate photoanodes for photoelectrochemical water splitting. Journal of Materials Chemistry A, 2021, 9, 25641-25650.	5.2	5
1987	Metal Oxide Co-catalyst Nanolayers on Photoelectrodes. RSC Energy and Environment Series, 2022, , 135-166.	0.2	0

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1989	Understanding the selectivity trend of water and sulfate (SO <sub>4</sub> <sup>2-</sup> ) oxidation on metal oxides: On-site synthesis of persulfate, H <sub>2</sub> O <sub>2</sub> for wastewater treatment. Chemical Engineering Journal, 2022, 431, 134332.	6.6	12
1990	Effect of surface-deposited Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene on the photoelectrochemical water-oxidation performance of iron-doped titania nanorod array. Chemical Engineering Journal, 2022, 431, 134124.	6.6	20
1991	Construction of MXene@BiVO <sub>4</sub> @FeOOH composite photoanode with ultra-low onset potential: performance, DFT calculation and mechanism. Materials Today Chemistry, 2022, 23, 100747.	1.7	2
1992	Optimization of photogenerated charge transport using type-II heterojunction structure of CoP/BiVO <sub>4</sub> :WO <sub>3</sub> for high efficient solar-driver water splitting. Journal of Alloys and Compounds, 2022, 899, 163292.	2.8	29
1993	Cobalt hexacyanoferrate as an effective cocatalyst boosting water oxidation on oxynitride TaON photocatalyst under visible light. Journal of Photochemistry and Photobiology A: Chemistry, 2022, 426, 113753.	2.0	4
1994	Interface-Confined Surface Engineering via Photoelectrochemical Etching toward Solar Neutral Water Splitting. ACS Catalysis, 2022, 12, 1686-1696.	5.5	42
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1997	Design Guidelines for Enhanced Activity of Water Splitting Photoelectrodes with Plasmonic Nanoparticles. Journal of Physical Chemistry C, 2022, 126, 1701-1710.	1.5	0
1998	Synthesis, Electronic Structure and Visible Light Photocatalytic Performance of Quaternary BiMnVO <sub>5</sub> . Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2022, 37, 58.	0.6	3
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2001	A two-photon tandem black phosphorus quantum dot-sensitized BiVO <sub>4</sub> photoanode for solar water splitting. Energy and Environmental Science, 2022, 15, 672-679.	15.6	64
2003	Enhanced Surface Kinetics and Charge Transfer of BiVO <sub>4</sub> Photoanodes by Rh <sub>2</sub> O <sub>3</sub> Cocatalyst Loading for Improved Solar Water Oxidation. Chemistry - an Asian Journal, 2022, 17, .	1.7	6
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2005	NiMoO <sub>x</sub> as a highly protective layer against photocorrosion for solar seawater splitting. Journal of Materials Chemistry A, 2022, 10, 1270-1277.	5.2	20
2006	A molecular cobaloxime cocatalyst and ultrathin FeOOH nanolayers co-modified BiVO <sub>4</sub> photoanode for efficient photoelectrochemical water oxidation. Journal of Energy Chemistry, 2022, 69, 497-505.	7.1	17
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2010	High Refractive Index Dielectric Nanoparticles for Optically Enhanced Activity of Water Splitting Photoanodes. <i>ChemPhotoChem</i> , 0, , .	1.5	0
2011	Ferroelectric-enhanced BiVO <sub>4</sub> -BiFeO <sub>3</sub> photoelectrocatalysis for efficient, stable and large-current-density oxygen evolution. <i>Applied Materials Today</i> , 2022, 26, 101374.	2.3	4
2012	Synergetic effects by Co <sup>2+</sup> and PO <sub>4</sub> <sup>3-</sup> on Mo-doped BiVO <sub>4</sub> for an improved photoanodic H <sub>2</sub> O <sub>2</sub> evolution. <i>Chemical Engineering Science</i> , 2022, 251, 117435.	1.9	34
2013	Ultra-efficient post-treatment flame method to introduce abundant oxygen vacancies in BiVO <sub>4</sub> photoanode toward solar water splitting. <i>Chemical Engineering Science</i> , 2022, 251, 117433.	1.9	5
2014	W:BiVO <sub>4</sub> -WO <sub>3</sub> -V <sub>2</sub> O <sub>5</sub> heterostructures increase light absorption and charge transport in photoanodes for water splitting. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107278.	3.3	5
2015	Bridging electrocatalyst and cocatalyst studies for solar hydrogen production <i>via</i> water splitting. <i>Chemical Science</i> , 2022, 13, 2824-2840.	3.7	15
2016	In situ localization of BiVO <sub>4</sub> onto two-dimensional MXene promoting photoelectrochemical nitrogen reduction to ammonia. <i>Chinese Chemical Letters</i> , 2022, 33, 4669-4674.	4.8	18
2017	Charge Localization in Defective BiVO <sub>4</sub> . <i>Journal of Physical Chemistry C</i> , 2022, 126, 2960-2970.	1.5	14
2018	Engineering MoO <sub>x</sub> /MXene Hole Transfer Layers for Unexpected Boosting of Photoelectrochemical Water Oxidation. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	9
2019	pH-Dependent Stability of $\text{SnWO}_4$ Photoelectrodes. <i>Chemistry of Materials</i> , 2022, 34, 1590-1598.	3.2	8
2020	Engineering MoO <sub>x</sub> /MXene Hole Transfer Layers for Unexpected Boosting of Photoelectrochemical Water Oxidation. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	80
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2022	Cu <sub>2</sub> O/CuO heterojunction formed by thermal oxidation and decorated with Pt co-catalyst as an efficient photocathode for photoelectrochemical water splitting. <i>Journal of Nanoparticle Research</i> , 2021, 23, 1.	0.8	22
2023	Preparation of double-layered Co <sup>2+</sup> /NiFeOOH co-catalyst for highly meliorated PEC performance in water splitting. , 2022, 1, 100024.		46
2024	Synthesis of diketopyrrolopyrrole and anthraquinone-based polymers of D <sup>1</sup> A <sup>2</sup> architecture by direct arylation polycondensation and designing inorganic/organic nano-heterostructured photoanodes for visible light water splitting. <i>Sustainable Energy and Fuels</i> , 2022, 6, 2343-2357.	2.5	7
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2027	Synergistic defect- and interfacial-engineering of a Bi <sub>2</sub> S <sub>3</sub> -based nanoplate network for high-performance photoelectrochemical solar water splitting. Journal of Materials Chemistry A, 2022, 10, 7830-7840.	5.2	13
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2029	Edge modified phosphorene nanoribbon heterojunctions: promising metal-free photocatalysts for direct overall water splitting. Journal of Materials Science, 2022, 57, 5482-5496.	1.7	6
2030	Synergistic Effect of Ni <sup>2+</sup> and Fe <sup>3+</sup> of Bimetallic Oxyhydroxide NiFeOOH as OER Cocatalyst for Fe <sub>2</sub> O <sub>3</sub> Photoanode with Enhanced Photoelectrochemical Water Splitting. Energy & Fuels, 2022, 36, 2890-2900.	2.5	9
2031	Electrochemical sensing platform based on ZrO <sub>2</sub> /BiVO <sub>4</sub> nanocomposite for gastro-prokinetic drug in human blood serum. Journal of Nanostructure in Chemistry, 2023, 13, 361-375.	5.3	11
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2035	Magnetite-free Sn-doped hematite nanoflake layers for enhanced photoelectrochemical water splitting. ChemElectroChem, 0, , .	1.7	2
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2038	Operando Photo-Electrochemical Catalysts Synchrotron Studies. Nanomaterials, 2022, 12, 839.	1.9	4
2039	Co-precipitation assisted preparation of Ag <sub>2</sub> O, CuO and Ag <sub>2</sub> O/CuO nanocomposite: Characterization and improved solar irradiated degradation of colored and colourless organic effluents. Ceramics International, 2022, 48, 19056-19067.	2.3	11
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2042	Nanostructured Iron Vanadate Photoanodes with Enhanced Visible Absorption and Charge Separation. ACS Applied Energy Materials, 2022, 5, 3409-3416.	2.5	7
2043	Facet-dependent spatial charge separation with rational cocatalyst deposition on BiVO <sub>4</sub> . Materials Today Energy, 2022, 26, 100986.	2.5	6



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2045	Strain Adjustment Realizes the Photocatalytic Overall Water Splitting on Tetragonal Zircon BiVO <sub>4</sub> . <i>Advanced Science</i> , 2022, 9, e2105299.	5.6	37
2046	State-of-the-art advancements of transition metal oxides as photoelectrode materials for solar water splitting. <i>Rare Metals</i> , 2022, 41, 2370-2386.	3.6	20
2047	Dual co-catalysts decorated Zn-WO <sub>3</sub> nanorod arrays with highly efficient photoelectrocatalytic performance. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 13641-13653.	3.8	9
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2049	Universal Deposition Strategy of Nanoporous Complex Oxide Thin Films for Photoelectrochemical Applications. <i>ACS Applied Energy Materials</i> , 2022, 5, 5127-5135.	2.5	3
2050	Boosting the solar water oxidation performance of BiVO <sub>4</sub> photoanode via non-stoichiometric ratio driven surface reconstruction. <i>Journal of Power Sources</i> , 2022, 528, 231242.	4.0	10
2051	A visible-light-driven photoelectrochemical sensing platform based on the BiVO <sub>4</sub> /FeOOH photoanode for dopamine detection. <i>Electrochimica Acta</i> , 2022, 414, 140207.	2.6	18
2052	Built-in electron transport channels and interfacial ions doping in BiVO <sub>4</sub> modified with isolated Ni atoms anchored on carbon hollow matrix for boosting charge separation and transport efficiency. <i>Chemical Engineering Journal</i> , 2022, 437, 135272.	6.6	9
2053	Rational construction of S-doped FeOOH onto Fe <sub>2</sub> O <sub>3</sub> nanorods for enhanced water oxidation. <i>Journal of Colloid and Interface Science</i> , 2022, 616, 749-758.	5.0	35
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2056	High-performance BiVO <sub>4</sub> photoanodes cocatalyzed with bilayer metalâ€“organic frameworks for photoelectrochemical application. <i>Journal of Colloid and Interface Science</i> , 2022, 619, 257-266.	5.0	13
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2059	Temperature Effect on Photoelectrochemical Water Splitting: A Model Study Based on BiVO <sub>4</sub> Photoanodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 61227-61236.	4.0	21
2060	Modifying the Electron-Trapping Process at the BiVO <sub>4</sub> Surface States via the TiO <sub>2</sub> Overlayer for Enhanced Water Oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 60602-60611.	4.0	18
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2063	High-Valent Iron Redox-Mediated Photoelectrochemical Water Oxidation. <i>ACS Energy Letters</i> , 2022, 7, 59-66.	8.8	10
2064	Direct propylene epoxidation with oxygen using a photo-electro-heterogeneous catalytic system. <i>Nature Catalysis</i> , 2022, 5, 37-44.	16.1	58
2065	Oxide-ion conductivity optimization in BiVO <sub>4</sub> scheelite by an acceptor doping strategy. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 2644-2658.	3.0	3
2066	Construction of organic-inorganic hybrid photoanodes with metal phthalocyanine complexes to improve photoelectrochemical water splitting performance. <i>New Journal of Chemistry</i> , 2022, 46, 9111-9118.	1.4	6
2067	A portable solar light-driven biophotoelectrocatalytic system for pollutant removal powered by photovoltaic cells. <i>Journal of Hazardous Materials</i> , 2022, 435, 128989.	6.5	8
2068	Single-Source Deposition of Mixed-Metal Oxide Films Containing Zirconium and 3d Transition Metals for (Photo)electrocatalytic Water Oxidation. <i>Inorganic Chemistry</i> , 2022, 61, 6223-6233.	1.9	4
2069	Multijunction Photoanode of Mo:BiVO <sub>4</sub> Layered with TiO <sub>2</sub> Inverse Opal and NiB <sub>i</sub> Oxygen Evolution Catalyst to Trap Light and Enhance Water Splitting. <i>Journal of Physical Chemistry C</i> , 2022, 126, 6960-6972.	1.5	4
2070	Dual-doping in the bulk and the surface to ameliorate the hematite anode for photoelectrochemical water oxidation. <i>Journal of Colloid and Interface Science</i> , 2022, 624, 60-69.	5.0	17
2071	Tip-induced directional charge separation on one-dimensional BiVO <sub>4</sub> nanocones for asymmetric light absorption. <i>Journal of Energy Chemistry</i> , 2022, 72, 326-332.	7.1	4
2072	Tuning the surface states of TiO <sub>2</sub> using Cu <sub>5</sub> atomic clusters. <i>Applied Surface Science</i> , 2022, 594, 153455.	3.1	7
2073	Mass-transfer control for selective deposition of well-dispersed AuPd cocatalysts to boost photocatalytic H <sub>2</sub> O <sub>2</sub> production of BiVO <sub>4</sub> . <i>Chemical Engineering Journal</i> , 2022, 443, 136429.	6.6	26
2075	Azide Molecule Mediated Electrolyte Engineering for Selective Photoelectrochemical Azo Coupling and Efficient and Stable Water Splitting. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
2076	Effect of nickel doping on the structure, morphology and oxygen evolution reaction performance of Cu-BTC derived CuCoO <sub>2</sub> . <i>Dalton Transactions</i> , 2022, 51, 8757-8765.	1.6	9
2077	Solution-based synthesis of wafer-scale epitaxial BiVO <sub>4</sub> thin films exhibiting high structural and optoelectronic quality. <i>Journal of Materials Chemistry A</i> , 2022, 10, 12026-12034.	5.2	6
2078	Boosting H <sub>2</sub> Production from a BiVO <sub>4</sub> Photoelectrochemical Biomass Fuel Cell by the Construction of a Bridge for Charge and Energy Transfer. <i>Advanced Materials</i> , 2022, 34, e2201594.	11.1	24
2079	Visible Light Photoanode Material for Photoelectrochemical Water Splitting: A Review of Bismuth Vanadate. <i>Energy &amp; Fuels</i> , 2022, 36, 11404-11427.	2.5	28
2080	Improving PEC Performance of BiVO <sub>4</sub> by Introducing Bulk Oxygen Vacancies by He <sup>+</sup> Ion Irradiation. <i>Journal of Physical Chemistry C</i> , 2022, 126, 7688-7695.	1.5	4

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2082	Nanoporous MoO <sub>3</sub> <sup>x</sup> /BiVO <sub>4</sub> photoanodes promoting charge separation for efficient photoelectrochemical water splitting. <i>Nano Research</i> , 2022, 15, 7026-7033.	5.8	30
2083	Electronic defects in metal oxide photocatalysts. <i>Nature Reviews Materials</i> , 2022, 7, 503-521.	23.3	129
2084	Z-DNA binding protein 1 promotes heatstroke-induced cell death. <i>Science</i> , 2022, 376, 609-615.	6.0	37
2085	Efficient Solar Water Splitting via Enhanced Charge Separation of the BiVO <sub>4</sub> Photoanode. <i>ACS Applied Energy Materials</i> , 2022, 5, 6383-6392.	2.5	13
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2336	NdCo <sub>3</sub> Molecular Catalyst Coupled with a BiVO <sub>4</sub> Photoanode for Photoelectrochemical Water Splitting. <i>ACS Applied Energy Materials</i> , 2023, 6, 4027-4034.	2.5	4



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2338	Effect of polymer additives on photocatalytic and photoelectrochemical properties of BiVO <sub>4</sub> prepared from aqueous metal-chelate solution. <i>Japanese Journal of Applied Physics</i> , 2023, 62, SK1030.	0.8	2
2339	5.7% Efficiency Si Photoanodes for Solar Water Splitting Catalyzed by Vertically Grown and Oxygen Vacancy Rich NiFe Hydroxides. <i>Advanced Sustainable Systems</i> , 2023, 7, .	2.7	1
2340	Coupling surface modification with cocatalyst deposition on BiVO <sub>4</sub> photoanode to enhance charge transfer for efficient solar-driven water splitting. <i>International Journal of Hydrogen Energy</i> , 2023, 48, 24320-24327.	3.8	3
2341	Atomically dispersed Ru oxide catalyst with lattice oxygen participation for efficient acidic water oxidation. <i>CheM</i> , 2023, 9, 1882-1896.	5.8	32
2342	Cobalt-Modified Amorphous Nickel-Iron-Molybdate Cocatalysts to Enhance the Photoelectrochemical Water Splitting Performance of BiVO <sub>4</sub> Photoanodes. <i>ACS Applied Energy Materials</i> , 0, , .	2.5	0
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2344	Construction of WO <sub>3</sub> quantum dots/TiO <sub>2</sub> nanowire arrays type II heterojunction <i>via</i> electrostatic self-assembly for efficient solar-driven photoelectrochemical water splitting. <i>Dalton Transactions</i> , 2023, 52, 6284-6289.	1.6	5
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2346	Efficient CuO/Ag <sub>2</sub> WO <sub>4</sub> photoelectrodes for photoelectrochemical water splitting using solar visible radiation. <i>RSC Advances</i> , 2023, 13, 11297-11310.	1.7	6
2347	Polaron-Mediated Transport in BiVO <sub>4</sub> Photoanodes for Solar Water Oxidation. <i>ACS Energy Letters</i> , 2023, 8, 2177-2184.	8.8	11
2348	Evolution of Intermediates on Metal Oxide Photoanodes in a Full pH Range. <i>ACS Catalysis</i> , 2023, 13, 5841-5849.	5.5	2
2349	Engineering BiVO <sub>4</sub> and Oxygen Evolution Cocatalyst Interfaces with Rapid Hole Extraction for Photoelectrochemical Water Splitting. <i>ACS Catalysis</i> , 2023, 13, 5938-5948.	5.5	26
2350	Size-Specific Infrared Spectroscopic Study of the Reactions between Water Molecules and Neutral Vanadium Dimer: Evidence for Water Splitting. <i>Journal of Physical Chemistry Letters</i> , 2023, 14, 3878-3883.	2.1	2
2351	Heterogeneous doping via charge carrier transport improves Photoelectrochemical H <sub>2</sub> O oxidative H <sub>2</sub> O <sub>2</sub> synthesis. <i>Chemical Engineering Journal</i> , 2023, 466, 142984.	6.6	2
2352	Analysis and characterization of BiVO <sub>4</sub> /FeOOH and BiVO <sub>4</sub> /Fe <sub>2</sub> O <sub>3</sub> nanostructures photoanodes for photoelectrochemical water splitting. <i>Journal of Materials Science: Materials in Electronics</i> , 2023, 34, .	1.1	4
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