

# Amorphous type FeOOH modified defective BiVO<sub>4</sub> photo water oxidation

Chemical Engineering Journal

428, 131027

DOI: [10.1016/j.cej.2021.131027](https://doi.org/10.1016/j.cej.2021.131027)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Photocatalytic and Electrocatalytic Properties of Cu-Loaded ZIF-67-Derivatized Bean Sprout-Like Co-TiO <sub>2</sub> /Ti Nanostructures. <i>Nanomaterials</i> , 2021, 11, 1904.	1.9	3
2	Enhancing the Charge Carrier Transfer of ZnFe <sub>2</sub> O <sub>4</sub> /C/TiO <sub>2</sub> Hollow Nanosphere Photocatalyst via Contact Interface Engineering. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 12893-12900.	1.8	5
3	Simultaneously Enhanced Charge Separation and Transfer in Cocatalyst-Free Hematite Photoanode by Mo/Sn Codoping. <i>ACS Applied Energy Materials</i> , 2021, 4, 10368-10379.	2.5	16
4	Vanadium-induced fragmentation of crystalline CoFe hydr(oxy)oxide electrocatalysts for enhanced oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 35230-35238.	3.8	22
5	Preparation of C, Sn modified ZnMn <sub>2</sub> O <sub>4</sub> porous microsphere and its electrochemical performance. <i>Journal of Alloys and Compounds</i> , 2021, 889, 161654.	2.8	9
6	Effects of Platinum Group Metals on MoS <sub>2</sub> Nanosheets for a High-Performance Hydrogen Evolution Reaction Catalyst. <i>ACS Applied Energy Materials</i> , 2021, 4, 10748-10755.	2.5	11
7	Interfacing Co <sub>3</sub> Mo with CoMoOx for synergistically boosting electrocatalytic hydrogen and oxygen evolution reactions. <i>Chemical Engineering Journal</i> , 2022, 431, 133240.	6.6	22
8	Construction of Co <sub>2</sub> P/CoP@Co@NCNT rich-interface to synergistically promote overall water splitting. <i>Chemical Engineering Journal</i> , 2022, 430, 132877.	6.6	68
9	Self-driven dual hydrogen production system based on a bifunctional single-atomic Rh catalyst. <i>Journal of Materials Chemistry A</i> , 2022, 10, 6134-6145.	5.2	34
10	Material design based on impurity element doping for photoelectrochemical capacitor composite electrodes using metal oxides. <i>Journal of Energy Storage</i> , 2021, 44, 103497.	3.9	8
11	An efficient palladium oxide nanoparticles@Co <sub>3</sub> O <sub>4</sub> nanocomposite with low chemisorbed species for enhanced oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 3834-3845.	3.8	18
12	Sn-Controlled Co-Doped Hematite for Efficient Solar-Assisted Chargeable Zn-Air Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 54906-54915.	4.0	10
13	Multidimensional Tungsten Oxides for Efficient Solar Energy Conversion. <i>Small Structures</i> , 2022, 3, 2100130.	6.9	21
14	Direct Z-scheme MgIn <sub>2</sub> S <sub>4</sub> /TiO <sub>2</sub> heterojunction for enhanced photocathodic protection of metals under visible light. <i>Nanotechnology</i> , 2022, , .	1.3	4
15	Directional regulating dynamic equilibrium to continuously update electrocatalytic interface for oxygen evolution reaction. <i>Chemical Engineering Journal</i> , 2022, 431, 134040.	6.6	90
16	Sugar-disguised bullets for combating multidrug-resistant bacteria infections based on an oxygen vacancy-engineered glucose-functionalized MoO <sub>3-x</sub> photo-coordinated bienzyme. <i>Chemical Engineering Journal</i> , 2022, 431, 133943.	6.6	8
17	Charge Relays via Dual Carbon Actions on Nanostructured BiVO <sub>4</sub> for High Performance Photoelectrochemical Water Splitting. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	219
18	ZIF67@MoO <sub>3</sub> NSs@NF composite electrocatalysts reinforced by chemical bonds and oxygen vacancy for efficient oxygen evolution reaction and overall water-splitting. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 9606-9615.	3.8	13

#	ARTICLE	IF	CITATIONS
19	Bimetallic-metal organic framework-derived Ni <sub>3</sub> S <sub>2</sub> /MoS <sub>2</sub> hollow spheres as bifunctional electrocatalyst for highly efficient and stable overall water splitting. International Journal of Hydrogen Energy, 2022, 47, 8165-8176.	3.8	31
20	Ni <sub>3</sub> S <sub>2</sub> nanosheets decorated on NiCo <sub>2</sub> O <sub>4</sub> flakes-arrays directional growth of Ni foam for enhanced electrochemical hydrogen generation. Journal of Electroanalytical Chemistry, 2022, 908, 116110.	1.9	4
21	New Findings for the Muchâ€Promised Hematite Photoanodes with Gradient Doping and Overlayer Elaboration. Solar Rrl, 2022, 6, .	3.1	15
22	Self-adaptive evolution of nickel silicide nanowires for the enhancement of bifunctional electrocatalytic activities. Chemical Engineering Journal, 2022, 434, 134668.	6.6	5
23	Design of hydrangea-type Co/Mo bimetal MOFs and MOF-derived Co/Mo <sub>2</sub> C embedded carbon composites for highly efficient oxygen evolution reaction. Chemical Engineering Journal, 2022, 435, 134815.	6.6	26
24	Oxygen vacancyâ€based metal oxides photoanodes in photoelectrochemical water splitting. Materials Today Sustainability, 2022, 18, 100118.	1.9	100
25	Dual textured BiVO <sub>4</sub> /Sb:SnO <sub>2</sub> heterostructure for enhanced photoelectrochemical Water-splitting. Chemical Engineering Journal, 2022, 435, 135183.	6.6	13
26	Composition-controlled high entropy metal glycerate as high-performance electrocatalyst for oxygen evolution reaction. Applied Materials Today, 2022, 27, 101398.	2.3	10
27	In Situ Grown Coâ€Based Interstitial Compounds: Nonâ€d Metal and Nonâ€Metal Dual Modulation Boosts Alkaline and Acidic Hydrogen Electrocatalysis. Small, 2022, 18, e2105331.	5.2	122
28	Boosting alkaline water splitting and the urea electrolysis kinetic process of a Co <sub>3</sub> O <sub>4</sub> nanosheet by electronic structure modulation of F, P co-doping. Dalton Transactions, 2022, 51, 4909-4918.	1.6	8
29	Fabrication of p-type silicon nanowire array based photoelectrodes for the efficient photoelectrocatalytic reduction of CO <sub>2</sub> to fuels and chemicals. Sustainable Energy and Fuels, 2022, 6, 1854-1865.	2.5	3
30	Influences of pulverization and annealing treatment on the photocatalytic activity of BiVO <sub>4</sub> for oxygen evolution. Sustainable Energy and Fuels, 2022, 6, 1698-1707.	2.5	3
31	Bifacial Modulation of Carrier Transport in BiVO <sub>4</sub> Photoanode for Stable Photoelectrochemical Water Splitting via Interface Engineering. Advanced Sustainable Systems, 2022, 6, .	2.7	3
32	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
33	Advanced Oxygenâ€Vacancy Ceâ€Doped MoO <sub>3</sub> Ultrathin Nanoflakes Anode Materials Used as Asymmetric Supercapacitors with Ultrahigh Energy Density. Advanced Energy Materials, 2022, 12, .	10.2	63
34	Catalysis of the Water Oxidation Reaction in the Presence of Iron and a Copper Foil. Inorganic Chemistry, 2022, 61, 5653-5664.	1.9	9
35	Anodized Steel: The Most Promising Bifunctional Electrocatalyst for Alkaline Water Electrolysis in Industry. Advanced Functional Materials, 2022, 32, .	7.8	37
36	State-of-the-art advancements of transition metal oxides as photoelectrode materials for solar water splitting. Rare Metals, 2022, 41, 2370-2386.	3.6	20

#	ARTICLE	IF	CITATIONS
37	Constructing BiOCl/ZnO heterojunction from Bi-MOF for efficient photocatalytic degradation performance. <i>Inorganic Chemistry Communication</i> , 2022, 140, 109445.	1.8	6
38	Based on a dual Z-scheme heterojunction and magnetically separable CoFe <sub>2</sub> O <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> /Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> flower-like composite for efficient visible-light photocatalytic degradation of organic pollutants. <i>Journal of Alloys and Compounds</i> , 2022, 911, 164907.	2.8	29
39	NiMo@C <sub>3</sub> N <sub>5</sub> heterostructures with multiple electronic transmission channels for highly efficient hydrogen evolution from alkaline electrolytes and seawater. <i>Chemical Engineering Journal</i> , 2022, 438, 135379.	6.6	42
40	Low proton adsorption energy barrier of S-scheme p-CNQDs/VO-ZnO for thermodynamics and kinetics favorable hydrogen evolution. <i>Chemical Engineering Journal</i> , 2022, 437, 135321.	6.6	14
41	High-entropy phosphate/C hybrid nanosheets for efficient acidic hydrogen evolution reaction. <i>Chemical Engineering Journal</i> , 2022, 437, 135375.	6.6	21
42	Interface defect chemistry enables dendrite-free lithium metal anodes. <i>Chemical Engineering Journal</i> , 2022, 437, 135109.	6.6	6
43	Metal-organic framework assisted vanadium oxide nanorods as efficient electrode materials for water oxidation. <i>Journal of Colloid and Interface Science</i> , 2022, 618, 475-482.	5.0	62
44	Ni <sub>3</sub> S <sub>2</sub> nanostrips@FeNi-NiFe <sub>2</sub> O <sub>4</sub> nanoparticles embedded in N-doped carbon microsphere: An improved electrocatalyst for oxygen evolution reaction. <i>Journal of Colloid and Interface Science</i> , 2022, 617, 1-10.	5.0	25
45	Boosting the photogenerated hole separation and injection of Ti-Fe <sub>2</sub> O <sub>3</sub> by co-modifying carbon quantum dots and NiFe layered double hydroxide. <i>Journal of Alloys and Compounds</i> , 2022, 908, 164643.	2.8	6
46	Metal-organic framework-derived self-supporting metal boride for efficient electrocatalytic oxygen evolution reaction. <i>Journal of Colloid and Interface Science</i> , 2022, 618, 34-43.	5.0	17
47	Stainless steel: A high potential material for green electrochemical energy storage and conversion. <i>Chemical Engineering Journal</i> , 2022, 440, 135459.	6.6	22
48	La-RuO <sub>2</sub> nanocrystals with efficient electrocatalytic activity for overall water splitting in acidic media: Synergistic effect of La doping and oxygen vacancy. <i>Chemical Engineering Journal</i> , 2022, 439, 135699.	6.6	47
49	Interface engineering induced electrocatalytic behavior in core-shelled CNTs@NiP <sub>2</sub> /NbP heterostructure for highly efficient overall water splitting. <i>Chemical Engineering Journal</i> , 2022, 442, 136120.	6.6	35
50	Recent progress on the recovery of valuable resources from source-separated urine on-site using electrochemical technologies: A review. <i>Chemical Engineering Journal</i> , 2022, 442, 136200.	6.6	17
51	Ni <sub>3</sub> S <sub>2</sub> -embedded NiFe LDH porous nanosheets with abundant heterointerfaces for high-current water electrolysis. <i>Chemical Engineering Journal</i> , 2022, 442, 136105.	6.6	44
52	Structure evolution from Fe <sub>2</sub> Ni MIL MOF to carbon confined O-doped FeNi/Fe <sub>2</sub> via partial fluorination for improved oxygen evolution reaction. <i>Chemical Engineering Journal</i> , 2022, 442, 136165.	6.6	31
53	Emerging Surface, Bulk, and Interface Engineering Strategies on BiVO <sub>4</sub> for Photoelectrochemical Water Splitting. <i>Small</i> , 2022, 18, e2105084.	5.2	78
54	Metal Oxide Based Photoelectrodes in Photoelectrocatalysis: Advances and Challenges. <i>ChemPlusChem</i> , 2022, 87, e202200097.	1.3	11

#	ARTICLE	IF	CITATIONS
55	Advances and challenges of MOF derived carbon-based electrocatalysts and photocatalyst for water splitting: A review. <i>Arabian Journal of Chemistry</i> , 2022, 15, 103906.	2.3	30
56	Highly accessible and dense surface single metal FeN <sub>4</sub> active sites for promoting the oxygen reduction reaction. <i>Energy and Environmental Science</i> , 2022, 15, 2619-2628.	15.6	82
57	Non-noble metal Bi/BiVO <sub>4</sub> photoanode for surface plasmon resonance-induced photoelectrochemical biosensor of hydrogen peroxide detection. <i>Journal of Solid State Electrochemistry</i> , 2022, 26, 1323-1331.	1.2	4
58	Role of lithium doping on Fe <sub>2</sub> O <sub>3</sub> photoanode for enhanced photoelectrochemical water oxidation. <i>Journal of Alloys and Compounds</i> , 2022, 915, 165349.	2.8	12
59	WO <sub>3</sub> Photoanode with Predominant Exposure of {202} Facets for Enhanced Selective Oxidation of Glycerol to Glyceraldehyde. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 23536-23545.	4.0	22
60	An experimental and density functional theory studies of Nb-doped BiVO <sub>4</sub> photoanodes for enhanced solar water splitting. <i>Journal of Catalysis</i> , 2022, 410, 144-155.	3.1	10
61	Phase-transition engineering induced lattice contraction of the molybdenum carbide surface for highly efficient hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2022, 10, 11414-11425.	5.2	16
62	High-performance and stable BiVO <sub>4</sub> photoanodes for solar water splitting via oxygen bonded FeNi catalysts. <i>Energy and Environmental Science</i> , 2022, 15, 2867-2873.	15.6	56
63	Multiscale design of 3D metal-organic frameworks (M <sup>n</sup> BTC, M: Cu, Co, Ni) via PLAL enabling bifunctional electrocatalysts for robust overall water splitting. <i>Chemical Engineering Journal</i> , 2022, 446, 137045.	6.6	95
64	Cobalt-embedded in ultrahigh boron and nitrogen codoped hierarchically porous carbon nanowires as excellent catalysts toward water splitting. <i>Chemical Engineering Journal</i> , 2022, 446, 137111.	6.6	21
65	Vanadium Nitride/Carbon Nanotube Vertical Nanoarrays on Iron Foam for Oxygen Evolution Reaction. <i>ACS Applied Nano Materials</i> , 2022, 5, 7714-7722.	2.4	10
66	Elucidating the Role of Hypophosphite Treatment in Enhancing the Performance of BiVO <sub>4</sub> Photoanode for Photoelectrochemical Water Oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 26642-26652.	4.0	26
67	Water Oxidation in the Presence of a Nickel Coordination Compound: Decomposition Products, Fe Impurity in the Electrolyte, and a Candidate as a Catalyst. <i>Journal of Physical Chemistry C</i> , 2022, 126, 9753-9761.	1.5	10
68	Enhanced photocurrent density for photoelectrochemical catalyzing water oxidation using novel W-doped BiVO <sub>4</sub> and metal organic framework composites. <i>Journal of Colloid and Interface Science</i> , 2022, 624, 515-526.	5.0	17
69	Doping and Vacancy Engineering in a Sandwich-like g-C <sub>3</sub> N <sub>4</sub> /NiCo <sub>2</sub> O <sub>4</sub> Heterostructure for Robust Oxygen Evolution. <i>ChemNanoMat</i> , 2022, 8, .	1.5	9
70	Efficient NO removal and photocatalysis mechanism over Bi-metal@Bi <sub>2</sub> O <sub>2</sub> [BO <sub>2</sub> (OH)] with oxygen vacancies. <i>Journal of Hazardous Materials</i> , 2022, 436, 129271.	6.5	13
71	Promoting effects of Y doping and FeOOH loading for efficient photoelectrochemical activity on BiVO <sub>4</sub> electrodes. <i>New Journal of Chemistry</i> , 0, , .	1.4	2
72	Efficient Oxygen Evolution Reaction on Polyethylene Glycol-Modified BiVO <sub>4</sub> Photoanode by Speeding up Proton Transfer. <i>Small</i> , 2022, 18, .	5.2	8

#	ARTICLE	IF	CITATIONS
73	Porous bimetallic cobalt-iron phosphide nanofoam for efficient and stable oxygen evolution catalysis. <i>Journal of Colloid and Interface Science</i> , 2022, 626, 515-523.	5.0	13
74	Lanthanide-Based Dual Modulation in Hematite Nanospindles for Enhancing the Photocatalytic Performance. <i>ACS Applied Nano Materials</i> , 2022, 5, 8557-8565.	2.4	18
75	Coral-like Sb <sub>2</sub> Se <sub>3</sub> /SnS <sub>2</sub> photocathode co-optimized by bilayer Sb <sub>2</sub> Se <sub>3</sub> structure and hole-storage layer for photoelectrochemical water splitting. <i>Journal of Alloys and Compounds</i> , 2022, 919, 165825.	2.8	10
76	Tailoring oxygen evolution performances of carbon nitride systems fabricated by electrophoresis through Ag and Au plasma functionalization. <i>Chemical Engineering Journal</i> , 2022, 448, 137645.	6.6	12
77	Recent research progress on operational stability of metal oxide/sulfide photoanodes in photoelectrochemical cells. , 2022, 1, e9120020.		87
78	Synergetic effect of bismuth vanadate over copolymerized carbon nitride composites for highly efficient photocatalytic H <sub>2</sub> and O <sub>2</sub> generation. <i>Journal of Colloid and Interface Science</i> , 2022, 627, 621-629.	5.0	20
79	Assembly of direct Z-scheme ZnIn <sub>2</sub> S <sub>4</sub> /BiVO <sub>4</sub> composite for enhanced photodegradation of tetracycline hydrochloride. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 651, 129784.	2.3	6
80	Dual modification of BiVO <sub>4</sub> photoanode by rare earth element neodymium doping and further NiFe <sub>2</sub> O <sub>4</sub> co-catalyst deposition for efficient photoelectrochemical water oxidation. <i>Journal of Alloys and Compounds</i> , 2022, 923, 166352.	2.8	14
81	Synergistic Catalytic Conversion of Cellulose into Glycolic Acid over Mn-Doped Bismuth Oxyiodide Catalyst Combined with H-ZSM-5. <i>Industrial &amp; Engineering Chemistry Research</i> , 2022, 61, 11382-11389.	1.8	5
82	Boosting the Performance of BiVO <sub>4</sub> Photoanodes by the Simultaneous Introduction of Oxygen Vacancies and Cocatalyst via Photoelectrodeposition. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 37833-37842.	4.0	14
83	Review on BiVO <sub>4</sub> -Based Photoanodes for Photoelectrochemical Water Oxidation: The Main Influencing Factors. <i>Energy &amp; Fuels</i> , 2022, 36, 9932-9949.	2.5	28
84	Boosting cation desorption, anion adsorption and surface redox reaction kinetics of Co <sub>3</sub> O <sub>4</sub> by oxygen vacancy. <i>Inorganic Chemistry Communication</i> , 2022, 143, 109821.	1.8	1
85	A homogeneous multi-species transport model for porous TiO <sub>2</sub> photoanode of photocatalytic fuel cell. <i>Applied Energy</i> , 2022, 324, 119777.	5.1	2
86	Charge reaction kinetics on TiO <sub>2</sub> nanotubes under photoelectrochemical water oxidation condition. <i>Applied Surface Science</i> , 2022, 603, 154447.	3.1	3
87	Multifunctional polymer coating cooperated with $\hat{1}^3$ -Fe <sub>2</sub> O <sub>3</sub> for boosting photoelectrochemical water oxidation. <i>Applied Catalysis B: Environmental</i> , 2022, 318, 121869.	10.8	11
88	Enhancement in the photoelectrochemical performance of BiVO <sub>4</sub> photoanode with high (0 4 0) facet exposure. <i>Journal of Colloid and Interface Science</i> , 2022, 628, 726-735.	5.0	7
89	Interface charge transfer kinetics study of tin oxide quantum dots-interspersed Bi <sub>3.84</sub> W <sub>0.16</sub> O <sub>6.24</sub> nanoflowers via photoelectrochemical activity. <i>Journal of Electroanalytical Chemistry</i> , 2022, 923, 116832.	1.9	1
90	Universal strategy of iron/cobalt-based materials for boosted electrocatalytic activity of water oxidation. <i>Journal of Colloid and Interface Science</i> , 2023, 629, 144-154.	5.0	10

#	ARTICLE	IF	CITATIONS
91	A durable VO <sub>2</sub> transition layer and defect inactivation in BiVO <sub>4</sub> via spontaneous valence-charge control. <i>Journal of Materials Chemistry A</i> , 2022, 10, 21300-21314.	5.2	1
92	High-efficiency NiCo layered double hydroxide electrocatalyst. <i>New Journal of Chemistry</i> , 2022, 46, 18535-18542.	1.4	9
93	Enhanced solar water splitting of BiVO <sub>4</sub> photoanodes by in situ surface band edge modulation. <i>Journal of Materials Chemistry A</i> , 2022, 10, 22561-22570.	5.2	18
94	Seed layer-free hydrothermal synthesis of porous tungsten trioxide nanoflake arrays for photoelectrochemical water splitting. <i>RSC Advances</i> , 2022, 12, 26099-26105.	1.7	1
95	Boosting electrocatalytic oxygen evolution activity by in-situ growth of hierarchical vertically-erected Ni(OH) <sub>2</sub> nanosheets on Ag nanowires. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 31614-31623.	3.8	3
96	Type-II Heterojunction CdIn <sub>2</sub> S <sub>4</sub> /BiVO <sub>4</sub> Coupling with QDs to Improve PEC Water Splitting Performance Synergistically. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 45392-45402.	4.0	32
97	Crystal Reconstruction of Mo:BiVO <sub>4</sub> : Improved Charge Transport for Efficient Solar Water Splitting. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	20
98	Anodization of a NiFe Foam: An Efficient and Stable Electrode for Oxygen-Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2022, 5, 11098-11112.	2.5	19
99	Discharged Titanium Oxide Nanotube Arrays Coated with Ni as a High-Performance Lithium Battery Electrode Material. <i>Energy Technology</i> , 2022, 10, .	1.8	5
100	Engineering active sites on hierarchical transition bimetal oxyhydroxide/bicarbonate heterostructure for oxygen evolution catalysis in seawater splitting. <i>Nano Research</i> , 2023, 16, 2094-2101.	5.8	8
101	Vacancy defect engineered BiVO <sub>4</sub> with low-index surfaces for photocatalytic application: a first principles study. <i>RSC Advances</i> , 2022, 12, 31317-31325.	1.7	1
102	Fabricating BiVO <sub>4</sub> /FeOOH/ZnFe-LDH hierarchical core-shell nanorod arrays for visible-light-driven photoelectrochemical water oxidation. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 6431-6440.	3.0	5
103	A novel co-catalyst of CoFeOOH for greatly improving the solar water splitting performance over Mo-doped bismuth vanadate. <i>Journal of Alloys and Compounds</i> , 2023, 932, 167633.	2.8	10
104	High-valence metal doped Co <sub>2</sub> FeAl alloy as efficient noble-metal-free electrocatalyst for alkaline hydrogen evolution reaction. <i>Journal of Alloys and Compounds</i> , 2023, 933, 167613.	2.8	8
105	Facile vacancies engineering of CoFe-PBA nanocubes for enhanced oxygen evolution. <i>Journal of Alloys and Compounds</i> , 2023, 935, 168084.	2.8	6
106	Tailored Synthesis of Ga <sub>2</sub> O <sub>3</sub> Nanofibers Towards Enhanced Photocatalytic Hydrogen Evolution. <i>Catalysis Letters</i> , 2023, 153, 2950-2958.	1.4	1
107	Effect of surface and internal BiO on the performance of the Bi <sub>2</sub> WO <sub>6</sub> photocatalyst. <i>Journal of Alloys and Compounds</i> , 2023, 935, 168052.	2.8	9
108	Directional charge separation on 2D/2D BiVO <sub>4</sub> /MXene for the enhanced photoelectrochemical detection of oxytetracycline antibiotic in water. <i>Surfaces and Interfaces</i> , 2023, 36, 102483.	1.5	11

#	ARTICLE	IF	CITATIONS
109	Molecular scissor tailoring hierarchical architecture of ZIF-derived Fe/N/C catalysts for acidic oxygen reduction reaction. <i>Applied Catalysis B: Environmental</i> , 2023, 324, 122209.	10.8	24
110	Enabling high low-bias performance of Fe <sub>2</sub> O <sub>3</sub> photoanode for photoelectrochemical water splitting. <i>Journal of Colloid and Interface Science</i> , 2023, 633, 555-565.	5.0	15
111	Hybrid CuFe@CoFe Prussian Blue Catalysts on BiVO <sub>4</sub> for Enhanced Charge Separation and Injection for Photoelectrochemical Water Oxidation. <i>ACS Applied Energy Materials</i> , 2022, 5, 15434-15441.	2.5	3
112	Anodization of NiFe Foam for Water-Oxidation Reaction under Neutral Conditions. <i>ACS Applied Energy Materials</i> , 2023, 6, 233-244.	2.5	9
113	PEC/Colorimetric Dual-Mode Lab-on-Paper Device via BiVO <sub>4</sub> /FeOOH Nanocomposite In Situ Modification on Paper Fibers for Sensitive CEA Detection. <i>Biosensors</i> , 2023, 13, 103.	2.3	2
114	Multifunctional metal-phosphide-based electrocatalysts for highly efficient solar hydrogen production integrated devices. <i>Journal of Materials Chemistry A</i> , 2023, 11, 2899-2909.	5.2	14
115	CeO <sub>2</sub> as an "electron pump" to boost the performance of Co <sub>4</sub> N in electrocatalytic hydrogen evolution, oxygen evolution and biomass oxidation valorization. <i>Applied Catalysis B: Environmental</i> , 2023, 325, 122364.	10.8	55
116	Manipulating the surface states of BiVO <sub>4</sub> through electrochemical reduction for enhanced PEC water oxidation. <i>Nanoscale</i> , 2023, 15, 4536-4545.	2.8	6
117	The impact of iron-boron electrocatalysts on the charge transport and oxygen evolution reaction of bismuth vanadate photoanodes. <i>Dalton Transactions</i> , 0, , .	1.6	1
118	Dual-purpose tunnel oxide passivated contact on silicon photoelectrodes with high photovoltages for tandem photoelectrochemical devices enabling unassisted water splitting. <i>Journal of Materials Chemistry A</i> , 2023, 11, 4194-4204.	5.2	1
119	PbS Quantum Dots-Decorated BiVO <sub>4</sub> Photoanodes for Highly Efficient Photoelectrochemical Hydrogen Production. <i>Nanomaterials</i> , 2023, 13, 799.	1.9	3
120	BiVO <sub>4</sub> photoelectrodes for unbiased solar water splitting devices enabled by electrodeposition of Cu <sub>2</sub> O simultaneously as photoanode and photocathode. <i>Journal of Alloys and Compounds</i> , 2023, 945, 169336.	2.8	6
121	Assembly of a novel Fe <sub>2</sub> TiO <sub>5</sub> -impregnated donor-acceptor conjugated carbon nitride for highly efficient solar water splitting. <i>Sustainable Materials and Technologies</i> , 2023, 36, e00594.	1.7	4
122	p-n Heterostructured BiVO <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> Photoanode: Construction and Its Photoelectrochemical Water Splitting Performance. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2023, 38, 87.	0.6	0
123	Oxygen-vacancy-dependent high-performance Zn-Ga <sub>2</sub> O <sub>3</sub> nanorods photoelectrochemical deep UV photodetectors. <i>Nanotechnology</i> , 2023, 34, 225203.	1.3	10
124	Double-shelled Porous g-C <sub>3</sub> N <sub>4</sub> Nanotubes Modified with Amorphous Cu-Doped FeOOH Nanoclusters as 0D/3D Non-homogeneous Photo-Fenton Catalysts for Effective Removal of Organic Dyes. <i>Small</i> , 2023, 19, .	5.2	36
125	Ordered porous nitrogen-vacancy carbon nitride for efficient visible-light hydrogen evolution. <i>Journal of Colloid and Interface Science</i> , 2023, 642, 53-60.	5.0	1
126	Thermodynamic aspects of urea oxidation reaction in the context of hydrogen production by electrolysis. <i>International Journal of Hydrogen Energy</i> , 2023, 48, 24207-24211.	3.8	2



#	ARTICLE	IF	CITATIONS
127	Water Oxidation by a Copper(II) Complex with 6,6'-Dihydroxy-2,2'-Bipyridine Ligand: Challenges and an Alternative Mechanism. <i>Langmuir</i> , 2023, 39, 5542-5553.	1.6	4
128	Cocatalyst loaded Al-SrTiO <sub>3</sub> cubes for Congo red dye photo-degradation under wide range of light. <i>Scientific Reports</i> , 2023, 13, .	1.6	12
129	Rapid Synthesis of Ultrathin Ni:FeOOH with In Situ-Induced Oxygen Vacancies for Enhanced Water Oxidation Activity and Stability of BiVO <sub>4</sub> Photoanodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2023, 15, 21123-21133.	4.0	11
130	Photoelectrochemical and Photovoltaic Performance of As-deposited Ink-based CuInS <sub>2</sub> Heterojunction Thin Film. <i>Journal of Electroanalytical Chemistry</i> , 2023, 940, 117484.	1.9	2
145	Electrocatalysts for the oxygen evolution reaction: mechanism, innovative strategies, and beyond. <i>Materials Chemistry Frontiers</i> , 2023, 7, 4833-4864.	3.2	9