

# Solar Energy Supply and Storage for the Legacy and Non

Chemical Reviews

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Photochemical energy conversion. , 0, , 112-190.		0
5	Basic ancillary ligands promote O–O bond formation in iridium-catalyzed water oxidation: A DFT study. Dalton Transactions, 2011, 40, 11241.	1.6	45
6	Cobalt–phosphate complexes catalyze the photoelectrochemical water oxidation of BiVO <sub>4</sub> electrodes. Physical Chemistry Chemical Physics, 2011, 13, 21392.	1.3	164
7	Nanoengineering and interfacial engineering of photovoltaics by atomic layer deposition. Nanoscale, 2011, 3, 3482.	2.8	154
8	Reversible intercyclobutadiene haptotropism in cyclopentadienylcobalt linear [4]phenylene. Chemical Communications, 2011, 47, 9039.	2.2	8
9	Light-induced water oxidation at silicon electrodes functionalized with a cobalt oxygen-evolving catalyst. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 10056-10061.	3.3	195
11	Bidirectional and Unidirectional PCET in a Molecular Model of a Cobalt-Based Oxygen-Evolving Catalyst. Journal of the American Chemical Society, 2011, 133, 5174-5177.	6.6	127
12	Photocatalytic hydrogen production. Chemical Communications, 2011, 47, 9268.	2.2	300
13	Anthropogenic Chemical Carbon Cycle for a Sustainable Future. Journal of the American Chemical Society, 2011, 133, 12881-12898.	6.6	1,159
14	Photocatalytic Hydrogen Evolution under Highly Basic Conditions by Using Ru Nanoparticles and 2-Phenyl-4-(1-naphthyl)quinolinium Ion. Journal of the American Chemical Society, 2011, 133, 16136-16145.	6.6	98
15	Towards an electricity-powered world. Energy and Environmental Science, 2011, 4, 3193.	15.6	397
16	Electrocatalytic Water Oxidation Beginning with the Cobalt Polyoxometalate [Co <sub>4</sub> (H <sub>2</sub> O) <sub>2</sub> (PW <sub>9</sub> O <sub>34</sub> ) <sub>2</sub> ] <sup>10-</sup> : Identification of Heterogeneous CoO <sub>x</sub> as the Dominant Catalyst. Journal of the American Chemical Society, 2011, 133, 14872-14875.	6.6	394
17	Electrochemical evidence for catalytic water oxidation mediated by a high-valent cobalt complex. Chemical Communications, 2011, 47, 4249.	2.2	343
18	Stretchable, elastic materials and devices for solar energy conversion. Energy and Environmental Science, 2011, 4, 3314.	15.6	356
19	Water Oxidation by a Mononuclear Ruthenium Catalyst: Characterization of the Intermediates. Journal of the American Chemical Society, 2011, 133, 14649-14665.	6.6	180
20	Photo-assisted water oxidation with cobalt-based catalyst formed from thin-film cobalt metal on silicon photoanodes. Energy and Environmental Science, 2011, 4, 2058.	15.6	106
21	Solution and solid-state interactions in a supramolecular ruthenium photosensitizer–polyoxometalate aggregate. Chemical Communications, 2011, 47, 6852.	2.2	27
22	Chemical solutions for the closed-cycle storage of solar energy. Energy and Environmental Science, 2011, 4, 4449.	15.6	242

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23	Photosensitization and photocatalysis in bioinorganic, bio-organometallic and biomimetic systems. <i>Advances in Inorganic Chemistry</i> , 2011, , 235-289.	0.4	24
24	Molecular Cobalt Pentapyridine Catalysts for Generating Hydrogen from Water. <i>Journal of the American Chemical Society</i> , 2011, 133, 9212-9215.	6.6	397
25	Mechanistic Studies of $O_2$ Reduction Effected by Group 9 Bimetallic Hydride Complexes. <i>Journal of the American Chemical Society</i> , 2011, 133, 17796-17806.	6.6	29
26	How to Make Hydrogen from the Sun: $Cu_2O$ and $Fe_2O_3$ Modified $TiO_2$ Nanotubes for Photoelectrochemical Solar Cells. <i>ECS Meeting Abstracts</i> , 2011, , .	0.0	0
27	Enhancing the photoelectrochemical performance of hematite ( $\alpha-Fe_2O_3$ ) electrodes by cadmium incorporation. <i>Applied Catalysis B: Environmental</i> , 2011, 110, 207-215.	10.8	88
28	Polyoxometalates in the Design of Effective and Tunable Water Oxidation Catalysts. <i>Israel Journal of Chemistry</i> , 2011, 51, 238-246.	1.0	37
29	Core-shell $MoO_3$ - $MoS_2$ Nanowires for Hydrogen Evolution: A Functional Design for Electrocatalytic Materials. <i>Nano Letters</i> , 2011, 11, 4168-4175.	4.5	1,099
30	Chapter 16. Synthetic Photo-catalytic Proteins – a Model of Photosystem II. <i>RSC Energy and Environment Series</i> , 2011, , 448-463.	0.2	0
31	Light-Driven Activation of the $[H_2O(terpy)Mn^{III}(\mu_4-O)(O_2)Mn^{IV}(terpy)OH_2]^{7+}$ Unit in a Chromophore-Catalyst Complex. <i>Chemistry - an Asian Journal</i> , 2011, 6, 1335-1339.		21
32	Studies of a Series of $[Ni(P^R)_2N^Ph]_2(CH_3CN)_2$ Complexes as Electrocatalysts for $H_2$ Production: Substituent Variation at the Phosphorus Atom of the $P_2N_2$ Ligand. <i>Inorganic Chemistry</i> , 2011, 50, 10000-10010.	1.9	141
33	Hydrogen Generation by Hangman Metalloporphyrins. <i>Journal of the American Chemical Society</i> , 2011, 133, 8775-8777.	6.6	255
34	Electrocatalytic Water Oxidation by Cobalt(III) Hangman $\Gamma^2$ -Octafluoro Corroles. <i>Journal of the American Chemical Society</i> , 2011, 133, 9178-9180.	6.6	488
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40	Semiconductor nanostructure-based photoelectrochemical water splitting: A brief review. <i>Chemical Physics Letters</i> , 2011, 507, 209-215.	1.2	235
41	Carbon dioxide reduction to methane and coupling with acetylene to form propylene catalyzed by remodeled nitrogenase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 19644-19648.	3.3	103

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42	<i>Ab initio</i> modeling of sulphur doped TiO <sub>2</sub> nanotubular photocatalyst for water-splitting hydrogen generation. IOP Conference Series: Materials Science and Engineering, 2012, 38, 012057.	0.3	17
43	Interplay of oxygen-evolution kinetics and photovoltaic power curves on the construction of artificial leaves. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 15617-15621.	3.3	81
44	Perspectives for Photobiology in Molecular Solar Fuels. Australian Journal of Chemistry, 2012, 65, 643.	0.5	3
45	Preparation and Characterization of Catalysts for Clean Energy: A Challenge for X-rays and Electrons. Australian Journal of Chemistry, 2012, 65, 608.	0.5	12
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51	Elucidating the Domain Structure of the Cobalt Oxide Water Splitting Catalyst by X-ray Pair Distribution Function Analysis. Journal of the American Chemical Society, 2012, 134, 11096-11099.	6.6	139
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53	Mixed-valence [Fe <sup>II</sup> Fe <sup>III</sup> ] hydrogenase active site model complexes stabilized by a bidentate carborane bis-phosphine ligand. Dalton Transactions, 2012, 41, 12468.	1.6	40
55	Molybdenum Boride and Carbide Catalyze Hydrogen Evolution in both Acidic and Basic Solutions. Angewandte Chemie - International Edition, 2012, 51, 12703-12706.	7.2	1,094
56	Electron Transfer in Dye-Sensitised Semiconductors Modified with Molecular Cobalt Catalysts: Photoreduction of Aqueous Protons. Chemistry - A European Journal, 2012, 18, 15464-15475.	1.7	112
57	Simple Nickel-Based Catalyst Systems Combined With Graphitic Carbon Nitride for Stable Photocatalytic Hydrogen Production in Water. ChemSusChem, 2012, 5, 2133-2138.	3.6	126
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59	Wavelength dependent photocatalytic H <sub>2</sub> generation using iridium-Pt/Pd complexes. Dalton Transactions, 2012, 41, 12678.	1.6	26
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65	Quantum Chemical Benchmarking, Validation, and Prediction of Acidity Constants for Substituted Pyridinium Ions and Pyridinyl Radicals. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 3187-3206.	2.3	81
66	Thermodynamic Oxidation and Reduction Potentials of Photocatalytic Semiconductors in Aqueous Solution. <i>Chemistry of Materials</i> , 2012, 24, 3659-3666.	3.2	627
67	Photocatalytic CO <sub>2</sub> reduction by TiO <sub>2</sub> and related titanium containing solids. <i>Energy and Environmental Science</i> , 2012, 5, 9217.	15.6	501
68	Recent progress in electrochemical hydrogen production with earth-abundant metal complexes as catalysts. <i>Energy and Environmental Science</i> , 2012, 5, 6763.	15.6	474
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70	The role of the bridging ligand in photocatalytic supramolecular assemblies for the reduction of protons and carbon dioxide. <i>Coordination Chemistry Reviews</i> , 2012, 256, 1682-1705.	9.5	140
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79	Solution-Cast Metal Oxide Thin Film Electrocatalysts for Oxygen Evolution. <i>Journal of the American Chemical Society</i> , 2012, 134, 17253-17261.	6.6	1,403
80	Synthesis and Activities of Rutile IrO <sub>2</sub> and RuO <sub>2</sub> Nanoparticles for Oxygen Evolution in Acid and Alkaline Solutions. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 399-404.	2.1	2,912

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87	Water Oxidation at Hematite Photoelectrodes: The Role of Surface States. <i>Journal of the American Chemical Society</i> , 2012, 134, 4294-4302.	6.6	895
88	The Hydrogen Catalyst Cobaloxime: A Multifrequency EPR and DFT Study of Cobaloxime's Electronic Structure. <i>Journal of Physical Chemistry B</i> , 2012, 116, 2943-2957.	1.2	48
89	The Nature of Lithium Battery Materials under Oxygen Evolution Reaction Conditions. <i>Journal of the American Chemical Society</i> , 2012, 134, 16959-16962.	6.6	287
90	Computational and Experimental Study of the Mechanism of Hydrogen Generation from Water by a Molecular Molybdenum-Oxo Electrocatalyst. <i>Journal of the American Chemical Society</i> , 2012, 134, 5233-5242.	6.6	68
91	Nucleation, Growth, and Repair of a Cobalt-Based Oxygen Evolving Catalyst. <i>Journal of the American Chemical Society</i> , 2012, 134, 6326-6336.	6.6	216
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100	Using combinations of oxidants and bases as PCET reactants: thermochemical and practical considerations. <i>Energy and Environmental Science</i> , 2012, 5, 7771.	15.6	97
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107	Splitting water with rust: hematite photoelectrochemistry. <i>Dalton Transactions</i> , 2012, 41, 7830.	1.6	166
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121	Reduction of graphene oxide by an in-situ photoelectrochemical method in a dye-sensitized solar cell assembly. <i>Nanoscale Research Letters</i> , 2012, 7, 101.	3.1	56
122	Synthesis and Characterization of New Iridium Photosensitizers for Catalytic Hydrogen Generation from Water. <i>Chemistry - A European Journal</i> , 2012, 18, 3220-3225.	1.7	90
123	Shape- and Size- Controlled Nanomaterials for Artificial Photosynthesis. <i>ChemSusChem</i> , 2013, 6, 1834-1847.	3.6	51
124	An Investigation of Thin-Film Ni-Fe Oxide Catalysts for the Electrochemical Evolution of Oxygen. <i>Journal of the American Chemical Society</i> , 2013, 135, 12329-12337.	6.6	2,132
125	Strategies for Stabilization of Electrodeposited Metal Particles in Electropolymerized Films for H <sub>2</sub> O Oxidation and H <sup>+</sup> Reduction. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 7050-7057.	4.0	10
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127	An ultraviolet responsive hybrid solar cell based on titania/poly(3-hexylthiophene). <i>Scientific Reports</i> , 2013, 3, 1283.	1.6	59
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132	Water Oxidation Catalysis: Electrocatalytic Response to Metal Stoichiometry in Amorphous Metal Oxide Films Containing Iron, Cobalt, and Nickel. <i>Journal of the American Chemical Society</i> , 2013, 135, 11580-11586.	6.6	817
133	Role of Advanced Analytical Techniques in the Design and Characterization of Improved Catalysts for Water Oxidation. , 2013, , 305-339.		3
134	Current Development of Photocatalysts for Solar Energy Conversion. , 2013, , 279-304.		2
135	Pacman and Hangman Metal Tetraazamacrocycles. <i>ChemSusChem</i> , 2013, 6, 1541-1544.	3.6	15



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136	Applied Photochemistry. , 2013, , .		37
137	Theoretical Investigation of the Activity of Cobalt Oxides for the Electrochemical Oxidation of Water. Journal of the American Chemical Society, 2013, 135, 13521-13530.	6.6	1,093
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149	Structural properties of trans hydrido-hydroxo M(H)(OH)(NH <sub>2</sub> CMe <sub>2</sub> CMe <sub>2</sub> NH <sub>2</sub> )(PPh <sub>3</sub> ) <sub>2</sub> (M = Ru, Os) complexes and their proton exchange behaviour with water in solution. Dalton Transactions, 2013, 42, 10214.	1.6	14
150	Nanoenergy. , 2013, , .		5
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#	ARTICLE	IF	CITATIONS
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155	Solar Fuels: Photoelectrosynthesis of CO from CO <sub>2</sub> at p-type Si using Fe Porphyrin Electrocatalysts. <i>Chemistry - A European Journal</i> , 2013, 19, 13522-13527.	1.7	41
156	A stable dual-functional system of visible-light-driven Ni(ii) reduction to a nickel nanoparticle catalyst and robust in situ hydrogen production. <i>Chemical Communications</i> , 2013, 49, 11251.	2.2	48
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158	Decreasing operating potential for water electrolysis to hydrogen via local confinement of iron-based soft coordination suprapolymers. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 15912.	1.3	1
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160	Harnessing Infrared Photons for Photoelectrochemical Hydrogen Generation. A PbS Quantum Dot Based Quasi-Artificial Leaf. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 141-146.	2.1	101
161	Highly photoactive Ti-doped Fe <sub>2</sub> O <sub>3</sub> thin film electrodes: resurrection of the dead layer. <i>Energy and Environmental Science</i> , 2013, 6, 634-642.	15.6	208
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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1014	Silicon microwire arrays decorated with amorphous heterometal-doped molybdenum sulfide for water photoelectrolysis. <i>Nano Energy</i> , 2017, 32, 422-432.	8.2	58
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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1148	Mechanism of Water Oxidation Catalyzed by a Dinuclear Ruthenium Complex Bridged by Anthraquinone. <i>Catalysts</i> , 2017, 7, 56.	1.6	11
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1150	Design Rules for Oxygen Evolution Catalysis at Porous Iron Oxide Electrodes: A 1000-Fold Current Density Increase. <i>ChemSusChem</i> , 2017, 10, 3644-3651.	3.6	27
1151	Spin-coated epoxy resin embedding technique enables facile SEM/FIB thickness determination of porous metal oxide ultra-thin films. <i>Journal of Microscopy</i> , 2018, 270, 302-308.	0.8	6
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1154	Tracking precursor degradation during the photo-induced formation of amorphous metal oxide films. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4544-4549.	5.2	6
1155	Traditional NiCo <sub>2</sub> S <sub>4</sub> Phase with Porous Nanosheets Array Topology on Carbon Cloth: A Flexible, Versatile and Fabulous Electrocatalyst for Overall Water and Urea Electrolysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 5011-5020.	3.2	164
1156	Millimeter-Long Vertically Aligned Carbon-Nanotube-Supported Co <sub>3</sub> O <sub>4</sub> Composite Electrode for High-Performance Asymmetric Supercapacitor. <i>ChemElectroChem</i> , 2018, 5, 1394-1400.	1.7	32
1157	Ultrathin nanosheets-assembled CuO flowers for highly efficient electrocatalytic water oxidation. <i>Journal of Materials Science</i> , 2018, 53, 8141-8150.	1.7	40
1158	Reversing the Tradeoff between Rate and Overpotential in Molecular Electrocatalysts for H <sub>2</sub> Production. <i>ACS Catalysis</i> , 2018, 8, 3286-3296.	5.5	79
1159	A structurally versatile nickel phosphite acting as a robust bifunctional electrocatalyst for overall water splitting. <i>Energy and Environmental Science</i> , 2018, 11, 1287-1298.	15.6	205
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1162	Robust and conductive Magn <sup>+</sup> Phase Ti <sub>4</sub> O <sub>7</sub> decorated on 3D-nanoflower NiRu-LDH as high-performance oxygen reduction electrocatalyst. <i>Nano Energy</i> , 2018, 47, 309-315.	8.2	59
1163	Porous superstructures constructed from ultrafine FeP nanoparticles for highly active and exceptionally stable hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2018, 6, 6387-6392.	5.2	79
1164	Highly Reversible Water Oxidation at Ordered Nanoporous Iridium Electrodes Based on an Original Atomic Layer Deposition. <i>ChemElectroChem</i> , 2018, 5, 1259-1264.	1.7	32
1165	Mononuclear first-row transition-metal complexes as molecular catalysts for water oxidation. <i>Chinese Journal of Catalysis</i> , 2018, 39, 228-244.	6.9	62
1166	Design of Boron Doped C <sub>2</sub> N-C <sub>3</sub> N Coplanar Conjugated Heterostructure for Efficient HER Electrocatalysis. <i>Scientific Reports</i> , 2018, 8, 5661.	1.6	21
1167	Bifunctional electrocatalysts of MOF-derived Co <sup>+</sup> N/C on bamboo-like MnO nanowires for high-performance liquid- and solid-state Zn <sup>+</sup> air batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 9716-9722.	5.2	167
1168	Low-Symmetry Mesoporous Titanium Dioxide (Ti <sub>2</sub> O <sub>3</sub> ) Electrocatalyst for Efficient and Durable Oxygen Evolution in Aqueous Alkali. <i>Journal of the Electrochemical Society</i> , 2018, 165, H300-H309.	1.3	17
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#	ARTICLE	IF	CITATIONS
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1173	Hydrogen adsorption trends on Al-doped Ni <sub>2</sub> P surfaces for optimal catalyst design. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 13785-13791.	1.3	9
1174	Chapter 4. Unravelling the Charge Transfer Mechanism in Water Splitting Hematite Photoanodes. <i>RSC Energy and Environment Series</i> , 2018, , 100-127.	0.2	5
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1179	Hydrothermal synthesis of nanosized (Fe, Co, Ni)-TiO <sub>2</sub> for enhanced visible light photosensitive applications. <i>Optik</i> , 2018, 165, 408-415.	1.4	18
1180	Transition-Metal-Based Electrocatalysts as Cocatalysts for Photoelectrochemical Water Splitting: A Mini Review. <i>Small</i> , 2018, 14, e1704179.	5.2	182
1181	Electrochemically Activated Iridium Oxide Black as Promising Electrocatalyst Having High Activity and Stability for Oxygen Evolution Reaction. <i>ACS Energy Letters</i> , 2018, 3, 1110-1115.	8.8	48
1182	Enhanced Photoelectrochemical Water Oxidation on BiVO <sub>4</sub> with Mesoporous Cobalt Nitride Sheets as Oxygen-Evolution Cocatalysts. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 2557-2563.	1.0	14
1183	Chemical and electronic structure analysis of a SrTiO <sub>3</sub> (001)/p-Ge (001) hydrogen evolution photocathode. <i>MRS Communications</i> , 2018, 8, 446-452.	0.8	8
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1185	W-doped MoO <sub>2</sub> /MoC Hybrids Encapsulated by P-doped Carbon Shells for Enhanced Electrocatalytic Hydrogen Evolution. <i>Energy Technology</i> , 2018, 6, 1707-1714.	1.8	21
1186	Iron and cobalt hydroxides: Describing the oxygen evolution reaction activity trend with the amount of electrocatalyst. <i>Electrochimica Acta</i> , 2018, 274, 224-232.	2.6	6
1187	3D structured Mo-doped Ni <sub>3</sub> S <sub>2</sub> nanosheets as efficient dual-electrocatalyst for overall water splitting. <i>Applied Surface Science</i> , 2018, 441, 1024-1033.	3.1	127
1188	A highly stable bifunctional catalyst based on 3D Co(OH) <sub>2</sub> @NCNTs@NF towards overall water-splitting. <i>Nano Energy</i> , 2018, 47, 96-104.	8.2	121
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1191	Electrolyzer Design for Flexible Decoupled Water Splitting and Organic Upgrading with Electron Reservoirs. <i>CheM</i> , 2018, 4, 637-649.	5.8	130
1192	Enhancing and stabilizing $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> photoanode towards neutral water oxidation: Introducing a dual-functional NiCoAl layered double hydroxide overlayer. <i>Journal of Catalysis</i> , 2018, 359, 287-295.	3.1	64
1193	Dual-Functional Starfish-like P-Doped Co <sup>II</sup> /Ni <sup>II</sup> /S Nanosheets Supported on Nickel Foams with Enhanced Electrochemical Performance and Excellent Stability for Overall Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 7087-7095.	4.0	103
1194	Integrated Flexible Electrode for Oxygen Evolution Reaction: Layered Double Hydroxide Coupled with Single-Walled Carbon Nanotubes Film. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 2911-2915.	3.2	41
1195	Cellulose nanocrystals (CNC) derived Mo <sub>2</sub> C@sulfur-doped carbon aerogels for hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 13720-13726.	3.8	50
1196	Reactivity of Two-Electron-Reduced Boron Formazanate Compounds with Electrophiles: Facile N <sup>II</sup> -H/N <sup>II</sup> -C Bond Homolysis Due to the Formation of Stable Ligand Radicals. <i>Inorganic Chemistry</i> , 2018, 57, 9720-9727.	1.9	14
1197	Inverse Opal-like Porous MoSe <sub>2</sub> Films for Hydrogen Evolution Catalysis: Overpotential-Pore Size Dependence. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 4937-4945.	4.0	36
1198	Encapsulation of Ni/Fe <sub>3</sub> O <sub>4</sub> heterostructures inside onion-like N-doped carbon nanorods enables synergistic electrocatalysis for water oxidation. <i>Nanoscale</i> , 2018, 10, 3997-4003.	2.8	75
1199	Phase and composition controlled synthesis of cobalt sulfide hollow nanospheres for electrocatalytic water splitting. <i>Nanoscale</i> , 2018, 10, 4816-4824.	2.8	256
1200	Wet-chemistry topotactic synthesis of bimetallic iron-nickel sulfide nanoarrays: an advanced and versatile catalyst for energy efficient overall water and urea electrolysis. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4346-4353.	5.2	181
1201	Nature of MoH <sup>+</sup> ...I bonds in Cp <sub>2</sub> Mo(L)H <sup>+</sup> ...I <sup>-</sup> ...Câ€R Complexes (L=H, CN, PPh <sub>2</sub> ), Tj ETQq1 1 0.784 <i>Applied Organometallic Chemistry</i> , 2018, 32, e4258.	1.7	4
1202	An Fe(TCNQ) <sub>2</sub> nanowire array on Fe foil: an efficient non-noble-metal catalyst for the oxygen evolution reaction in alkaline media. <i>Chemical Communications</i> , 2018, 54, 2300-2303.	2.2	120
1203	Facile Templateless Fabrication of a Cobalt Oxyhydroxide Nanosheet Film with Nanoscale Porosity as an Efficient Electrocatalyst for Water Oxidation. <i>ChemPhotoChem</i> , 2018, 2, 332-339.	1.5	4
1204	Highly Dispersed Mo <sub>2</sub> C Nanoparticles Embedded in Ordered Mesoporous Carbon for Efficient Hydrogen Evolution. <i>ACS Applied Energy Materials</i> , 2018, 1, 736-743.	2.5	44
1205	Reaction mechanisms of catalytic photochemical CO <sub>2</sub> reduction using Re(I) and Ru(II) complexes. <i>Coordination Chemistry Reviews</i> , 2018, 373, 333-356.	9.5	212
1206	Highly dispersed of Ni <sub>0.85</sub> Se nanoparticles on nitrogen-doped graphene oxide as efficient and durable electrocatalyst for hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2018, 262, 107-114.	2.6	39
1207	Synthesis, electrochemical properties and catalytic behavior for electrochemical hydrogen production of [Ni(1,3-bis(diphenylphosphino)propane)((2-mercaptopyridinate)- <sup>II</sup> N,S)]BF <sub>4</sub> . <i>Polyhedron</i> , 2018, 141, 267-270.	1.0	2

#	ARTICLE	IF	CITATIONS
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1209	Highly efficient photocatalytic reduction of CO <sub>2</sub> and H <sub>2</sub> O to CO and H <sub>2</sub> with a cobalt bipyridyl complex. <i>Journal of Energy Chemistry</i> , 2018, 27, 502-506.	7.1	33
1210	Fundamentals of bulk heterojunction organic solar cells: An overview of stability/degradation issues and strategies for improvement. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 84, 43-53.	8.2	189
1211	Electrodeposition of porous MoO <sub>4</sub> <sup>2-</sup> -doped NiFe nanosheets for highly efficient electrocatalytic oxygen evolution reactions. <i>Electrochimica Acta</i> , 2018, 260, 477-482.	2.6	33
1212	Synthesis, Characterization, and Photoelectrochemical Catalytic Studies of a Water-Stable Zinc-Based Metal-Organic Framework. <i>ChemSusChem</i> , 2018, 11, 542-546.	3.6	20
1213	Ti/Co-S catalyst covered amorphous Si-based photocathodes with high photovoltage for the HER in non-acid environments. <i>Journal of Materials Chemistry A</i> , 2018, 6, 811-816.	5.2	21
1214	Co <sub>9</sub> S <sub>8</sub> @MoS <sub>2</sub> Core-Shell Heterostructures as Trifunctional Electrocatalysts for Overall Water Splitting and Zn-Air Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 1678-1689.	4.0	242
1215	Solar-Thermal Pyrolysis of Mallee Wood at High Temperatures. <i>Energy &amp; Fuels</i> , 2018, 32, 4350-4356.	2.5	15
1216	Few-Layer Iron Selenophosphate, FePSe <sub>3</sub> : Efficient Electrocatalyst toward Water Splitting and Oxygen Reduction Reactions. <i>ACS Applied Energy Materials</i> , 2018, 1, 220-231.	2.5	80
1217	Copper oxide nanosheets prepared by molten salt method for efficient electrocatalytic oxygen evolution reaction with low catalyst loading. <i>Electrochimica Acta</i> , 2018, 263, 318-327.	2.6	44
1218	Porous CoP nanosheets converted from layered double hydroxides with superior electrochemical activity for hydrogen evolution reactions at wide pH ranges. <i>Chemical Communications</i> , 2018, 54, 1465-1468.	2.2	120
1219	Alkaline-Acid Zn-H <sub>2</sub> O Fuel Cell for the Simultaneous Generation of Hydrogen and Electricity. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3910-3915.	7.2	92
1220	Metal ion cycling of Cu foil for selective C-C coupling in electrochemical CO <sub>2</sub> reduction. <i>Nature Catalysis</i> , 2018, 1, 111-119.	16.1	600
1221	ITO nanoparticle film as a hole-selective layer for PbS-sensitized photocathodes. <i>New Journal of Chemistry</i> , 2018, 42, 2243-2247.	1.4	3
1222	Energy-efficient electrolytic hydrogen production assisted by coupling urea oxidation with a pH-gradient concentration cell. <i>Chemical Communications</i> , 2018, 54, 2603-2606.	2.2	99
1224	Direct Z-scheme heterojunction nanocomposite for the enhanced solar H <sub>2</sub> production. <i>Applied Catalysis A: General</i> , 2018, 553, 43-51.	2.2	33
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#	ARTICLE	IF	CITATIONS
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1228	A Large-Scale Graphene-Bimetal Film Electrode with an Ultrahigh Mass Catalytic Activity for Durable Water Splitting. <i>Advanced Energy Materials</i> , 2018, 8, 1800403.	10.2	29
1229	Cobalt Boron Imidazolate Framework Derived Cobalt Nanoparticles Encapsulated in B/N Codoped Nanocarbon as Efficient Bifunctional Electrocatalysts for Overall Water Splitting. <i>Advanced Functional Materials</i> , 2018, 28, 1801136.	7.8	155
1230	Photochemical CO <sub>2</sub> Reduction Catalyzed by <i>trans</i> -(Cl) $\{Ru(2,2\text{-bipyridine})(CO)_2Cl\}_2$ Bearing Two Methyl Groups at 4,4- or 5,5- or 6,6-Positions in the Ligand. <i>ChemPhotoChem</i> , 2018, 2, 314-322.	18	18
1231	Conformal and continuous deposition of bifunctional cobalt phosphide layers on p-silicon nanowire arrays for improved solar hydrogen evolution. <i>Nano Research</i> , 2018, 11, 4823-4835.	5.8	28
1232	Strain Effect in Bimetallic Electrocatalysts in the Hydrogen Evolution Reaction. <i>ACS Energy Letters</i> , 2018, 3, 1198-1204.	8.8	183
1233	Fabrication and theoretical investigation of MoS <sub>2</sub> -Co <sub>3</sub> S <sub>4</sub> hybrid hollow structure as electrode material for lithium-ion batteries and supercapacitors. <i>Chemical Engineering Journal</i> , 2018, 347, 607-617.	6.6	81
1234	Recent progress in photocatalytic conversion of carbon dioxide over gallium oxide and its nanocomposites. <i>Current Opinion in Chemical Engineering</i> , 2018, 20, 114-121.	3.8	15
1235	Strategy of nitrogen defects sponge from g-C <sub>3</sub> N <sub>4</sub> nanosheets and Ni-Bi-Se complex modification for efficient dye-sensitized photocatalytic H <sub>2</sub> evolution. <i>Molecular Catalysis</i> , 2018, 453, 1-11.	1.0	22
1236	Theoretical insights into the reactivity of Fe-based catalysts for water oxidation: the role of electron-withdrawing groups. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 14919-14926.	1.3	5
1237	Activation/deactivation behavior of nano-NiOx based anodes towards the OER: Influence of temperature. <i>Electrochimica Acta</i> , 2018, 276, 176-183.	2.6	30
1238	MOF-directed templating synthesis of hollow nickel-cobalt sulfide with enhanced electrocatalytic activity for oxygen evolution. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 8815-8823.	3.8	43
1239	Metal-organic framework-derived Zn <sub>0.975</sub> Co <sub>0.025</sub> S/CoS <sub>2</sub> embedded in N,S-codoped carbon nanotube/nanopolyhedra as an efficient electrocatalyst for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2018, 6, 10441-10446.	5.2	69
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1241	Novel NiFe/NiFe-LDH composites as competitive catalysts for clean energy purposes. <i>Applied Surface Science</i> , 2018, 447, 107-116.	3.1	29
1242	A catalyst based on copper-cadmium bimetal for electrochemical reduction of CO <sub>2</sub> to CO with high faradaic efficiency. <i>Electrochimica Acta</i> , 2018, 271, 544-550.	2.6	49
1243	Regular Dimpled Nickel Surfaces for Improved Efficiency of the Oxygen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2018, 1, 1771-1782.	2.5	23
1244	Ternary hybrids as efficient bifunctional electrocatalysts derived from bimetallic metal-organic-frameworks for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2018, 6, 5789-5796.	5.2	102

#	ARTICLE	IF	CITATIONS
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1246	Parallelized Reaction Pathway and Stronger Internal Band Bending by Partial Oxidation of Metal Sulfideâ€“Graphene Composites: Important Factors of Synergistic Oxygen Evolution Reaction Enhancement. <i>ACS Catalysis</i> , 2018, 8, 4091-4102.	5.5	116
1247	Mechanistic study of the [(dpp-bian)Re(CO)3Br] electrochemical reduction using in situ EPR spectroscopy and computational chemistry. <i>Electrochimica Acta</i> , 2018, 270, 526-534.	2.6	21
1248	Electrolytic CO <sub>2</sub> Reduction in a Flow Cell. <i>Accounts of Chemical Research</i> , 2018, 51, 910-918.	7.6	735
1249	Urea-assisted synthesis of amorphous molybdenum sulfide on P-doped carbon nanotubes for enhanced hydrogen evolution. <i>Journal of Materials Science</i> , 2018, 53, 8951-8962.	1.7	22
1250	Amorphous CoFeBO nanoparticles as highly active electrocatalysts for efficient water oxidation reaction. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 6138-6149.	3.8	46
1251	Large-scale synthesis of nitrogen doped MoS <sub>2</sub> quantum dots for efficient hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2018, 270, 256-263.	2.6	42
1252	Steel-based electrocatalysts for efficient and durable oxygen evolution in acidic media. <i>Catalysis Science and Technology</i> , 2018, 8, 2104-2116.	2.1	35
1253	Thickness controllable and mass produced WC@C/Pt hybrid for efficient hydrogen production. <i>Energy Storage Materials</i> , 2018, 10, 268-274.	9.5	28
1254	Three-dimensional reduced graphene oxideâ€“Mn <sub>3</sub> O <sub>4</sub> nanosheet hybrid decorated with palladium nanoparticles for highly efficient hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 3369-3377.	3.8	18
1255	Solarâ€“toâ€“Hydrogen Energy Conversion Based on Water Splitting. <i>Advanced Energy Materials</i> , 2018, 8, 1701620.	10.2	429
1256	Co(OH) <sub>2</sub> hollow nanoflowers as highly efficient electrocatalysts for oxygen evolution reaction. <i>Journal of Materials Research</i> , 2018, 33, 568-580.	1.2	22
1257	Water splitting based on homogeneous copper molecular catalysts. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 355, 141-151.	2.0	41
1258	An efficient catalyst film fabricated by electrophoretic deposition of cobalt hydroxide for electrochemical water oxidation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 358, 395-401.	2.0	4
1259	Ferroelectric electrocatalysts: a new class of materials for oxygen evolution reaction with synergistic effect of ferroelectric polarization. <i>Journal of Materials Science</i> , 2018, 53, 1414-1423.	1.7	15
1260	Hierarchically Structured NiFeO <sub>x</sub> /CuO Nanosheets/Nanowires as an Efficient Electrocatalyst for the Oxygen Evolution Reaction. <i>ChemCatChem</i> , 2018, 10, 1005-1011.	1.8	28
1261	Nanomaterials for Solar Energy Conversion: Dye-Sensitized Solar Cells Based on Ruthenium(II) tris-Heteroleptic Compounds or Natural Dyes. , 2018, , 69-106.		9
1262	Template-based synthesis of uniform bimetallic nickel-tin oxide hollow nanospheres as a new sensing platform for detection of erythrosine in food products. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 1716-1725.	4.0	8

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1264	Observing the Electrochemical Oxidation of Co Metal at the Solid/Liquid Interface Using Ambient Pressure X-ray Photoelectron Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2018, 122, 666-671.	1.2	73
1265	Thermal and photocatalytic production of hydrogen with earth-abundant metal complexes. <i>Coordination Chemistry Reviews</i> , 2018, 355, 54-73.	9.5	116
1266	Preparation of nanostructured Cu(OH) <sub>2</sub> and CuO electrocatalysts for water oxidation by electrophoresis deposition. <i>Journal of Materials Research</i> , 2018, 33, 581-589.	1.2	33
1267	Ni@Ru and NiCo@Ru Core-Shell Hexagonal Nanosandwiches with a Compositionally Tunable Core and a Regioselectively Grown Shell. <i>Small</i> , 2018, 14, 1702353.	5.2	50
1268	Hierarchical CuCo <sub>2</sub> S <sub>4</sub> nanoarrays for high-efficient and durable water oxidation electrocatalysis. <i>Chemical Communications</i> , 2018, 54, 78-81.	2.2	90
1269	Synthesis of yolk-shell spheres based on molybdenum diselenide-encapsulated molybdenum oxide for efficient electrocatalytic hydrogen evolution. <i>Sustainable Energy and Fuels</i> , 2018, 2, 444-454.	2.5	21
1270	Novel strongly coupled tungsten-carbon-nitrogen complex for efficient hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 16-23.	3.8	41
1271	MnO <sub>2</sub> -CoP <sub>3</sub> nanowires array: An efficient electrocatalyst for alkaline oxygen evolution reaction with enhanced activity. <i>Electrochemistry Communications</i> , 2018, 86, 161-165.	2.3	202
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1293	A 2,2'-bipyridine-containing covalent organic framework bearing rhenium(III) tricarbonyl moieties for CO <sub>2</sub> reduction. <i>Dalton Transactions</i> , 2018, 47, 17450-17460.	1.6	80
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1300	Highly efficient visible-light-assisted photocatalytic hydrogen generation from water splitting catalyzed by Zn <sub>0.5</sub> Cd <sub>0.5</sub> /Ni <sub>2</sub> P heterostructures. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 22917-22928.	3.8	26

#	ARTICLE	IF	CITATIONS
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1306	Combustion synthesis and photoelectrochemical characterization of gallium zinc oxynitrides. <i>Journal of Materials Research</i> , 2018, 33, 3971-3978.	1.2	3
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1308	Bio-inspired Z-scheme g-C3N4/Ag2CrO4 for efficient visible-light photocatalytic hydrogen generation. <i>Scientific Reports</i> , 2018, 8, 16504.	1.6	60
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1342	Ultrathin Nitrogen-Doped Holey Carbon@Graphene Bifunctional Electrocatalyst for Oxygen Reduction and Evolution Reactions in Alkaline and Acidic Media. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16511-16515.	7.2	261
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1345	Hydrogenation of CO <sub>2</sub> on Nickel-Iron Nanoparticles Under Sunlight Irradiation. <i>Topics in Catalysis</i> , 2018, 61, 1810-1819.	1.3	12
1346	Efficient strategy for significantly decreasing overpotentials of hydrogen generation via oxidizing small molecules at flexible bifunctional CoSe electrodes. <i>Journal of Power Sources</i> , 2018, 401, 238-244.	4.0	44
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1363	Hydrothermal Synthesis of NiCo <sub>2</sub> O <sub>4</sub> Nanowires on Carbon Fiber Paper for Hydrogen Evolution Catalyst. <i>Key Engineering Materials</i> , 0, 775, 139-143.	0.4	7
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1376	Optimization of rechargeable zinc-air battery with Co <sub>3</sub> O <sub>4</sub> /MnO <sub>2</sub> /CNT bifunctional catalyst: effects of catalyst loading, binder content, and spraying area. <i>Ionics</i> , 2018, 24, 3877-3884.	1.2	13
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1391	Efficient hydrogen evolution performance of phase-pure NiS electrocatalysts grown on fluorine-doped tin oxide-coated glass by facile chemical bath deposition. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 13022-13031.	3.8	15

#	ARTICLE	IF	CITATIONS
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1400	Oxygen Reduction Reaction Promoted by Manganese Porphyrins. <i>ACS Catalysis</i> , 2018, 8, 8671-8679.	5.5	91
1401	Spontaneous Formation of Noble and Heavy Metal-Free Alloyed Semiconductor Quantum Rods for Efficient Photocatalysis. <i>Advanced Materials</i> , 2018, 30, e1803351.	11.1	47
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#	ARTICLE	IF	CITATIONS
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1531	Bimetallic Iron-Cobalt Catalysts and Their Applications in Energy-Related Electrochemical Reactions. <i>Catalysts</i> , 2019, 9, 762.	1.6	16
1532	Hexagonal $\hat{I}^2$ -Ni(OH) <sub>2</sub> nanoplates with oxygen vacancies as efficient catalysts for the oxygen evolution reaction. <i>Electrochimica Acta</i> , 2019, 324, 134868.	2.6	37
1533	Group IV transition metal based phospho-chalcogenides@MoTe <sub>2</sub> for electrochemical hydrogen evolution reaction over wide range of pH. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 24628-24641.	3.8	19
1534	Carved nanoframes of cobalt-iron bimetal phosphide as a bifunctional electrocatalyst for efficient overall water splitting. <i>Chemical Science</i> , 2019, 10, 464-474.	3.7	238
1535	Highly Efficient Solar-Driven Carbon Dioxide Reduction on Molybdenum Disulfide Catalyst Using Choline Chloride-Based Electrolyte. <i>Advanced Energy Materials</i> , 2019, 9, 1803536.	10.2	34
1536	Alternative Oxidation Reactions for Solar-Driven Fuel Production. <i>ACS Catalysis</i> , 2019, 9, 2007-2017.	5.5	115

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1538	Tuning the oxygen evolution reaction on a nickel-iron alloy via active straining. <i>Nanoscale</i> , 2019, 11, 426-430.	2.8	52
1539	Metal-organic frameworks based on tetraphenylpyrazine-derived tetracarboxylic acid for electrocatalytic hydrogen evolution reaction and NAC sensing. <i>CrystEngComm</i> , 2019, 21, 494-501.	1.3	25
1540	Achieving a direct band gap and high power conversion efficiency in an Sb <sub>2</sub> Te <sub>3</sub> /Bi <sub>2</sub> Te <sub>3</sub> type-II vdW heterostructure via interlayer compression and electric field application. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 2619-2627.	1.3	13
1541	Copper hydride clusters in energy storage and conversion. <i>Dalton Transactions</i> , 2019, 48, 3531-3538.	1.6	82
1542	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
1543	Activating CoFe <sub>2</sub> O <sub>4</sub> electrocatalysts by trace Au for enhanced oxygen evolution activity. <i>Applied Surface Science</i> , 2019, 478, 206-212.	3.1	36
1544	Solar-driven carbon dioxide fixation using photosynthetic semiconductor bio-hybrids. <i>Faraday Discussions</i> , 2019, 215, 54-65.	1.6	30
1545	Nanoscale hetero-interfaces between metals and metal compounds for electrocatalytic applications. <i>Journal of Materials Chemistry A</i> , 2019, 7, 5090-5110.	5.2	128
1546	Bimetallic metal-organic framework derived electrocatalyst for efficient overall water splitting. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 5983-5989.	3.8	26
1547	Fabrication of NiC/MoC/NiMoO <sub>4</sub> Heterostructured Nanorod Arrays as Stable Bifunctional Electrocatalysts for Efficient Overall Water Splitting. <i>Chemistry - an Asian Journal</i> , 2019, 14, 1013-1020.	1.7	17
1548	Reductive Disproportionation of CO <sub>2</sub> Mediated by Bimetallic Nickelate(I)/Group 13 Complexes. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 2140-2145.	1.0	20
1549	Engineering hybrid CoMoS <sub>4</sub> /Ni <sub>3</sub> S <sub>2</sub> nanostructures as efficient bifunctional electrocatalyst for overall water splitting. <i>Journal of Power Sources</i> , 2019, 416, 95-103.	4.0	80
1550	The role of oxygen vacancies in water oxidation for perovskite cobalt oxide electrocatalysts: are more better?. <i>Chemical Communications</i> , 2019, 55, 1442-1445.	2.2	100
1551	Electrochemically chopped WS <sub>2</sub> quantum dots as an efficient and stable electrocatalyst for water reduction. <i>Catalysis Science and Technology</i> , 2019, 9, 223-231.	2.1	32
1552	Ni-Doped CuS as an efficient electrocatalyst for the oxygen evolution reaction. <i>Catalysis Science and Technology</i> , 2019, 9, 406-417.	2.1	76
1553	Recent progress in ligand-centered homogeneous electrocatalysts for hydrogen evolution reaction. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 343-354.	3.0	69
1554	Enhancing photoelectrochemical hydrogen production of a n <sup>+</sup> -p-Si hetero-junction photocathode with amorphous Ni and Ti layers. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 527-532.	3.0	10

#	ARTICLE	IF	CITATIONS
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1556	A highly active oxygen evolution electrocatalyst: Ni-Fe-layered double hydroxide intercalated with the Molybdate and Vanadate anions. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 14842-14852.	3.8	52
1557	Suppressed Charge Recombination in Hematite Photoanode via Protonation and Annealing. <i>ACS Applied Energy Materials</i> , 2019, 2, 5438-5445.	2.5	16
1558	Strontium-doped lanthanum iron nickelate oxide as highly efficient electrocatalysts for oxygen evolution reaction. <i>Journal of Colloid and Interface Science</i> , 2019, 553, 813-819.	5.0	18
1559	The application of CeO <sub>2</sub> -based materials in electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2019, 7, 17675-17702.	5.2	128
1560	NiO/Porous Reduced Graphene Oxide as Active Hybrid Electrocatalyst for Oxygen Evolution Reaction. <i>Russian Journal of Electrochemistry</i> , 2019, 55, 333-338.	0.3	16
1561	Morphological and electronic modification of 3D porous nickel microsphere arrays by cobalt and sulfur dual synergistic modulation for overall water splitting electrolysis and supercapacitors. <i>Applied Surface Science</i> , 2019, 491, 570-578.	3.1	22
1562	Heterostructural NiFe-LDH@Ni <sub>3</sub> S <sub>2</sub> nanosheet arrays as an efficient electrocatalyst for overall water splitting. <i>Electrochimica Acta</i> , 2019, 318, 42-50.	2.6	84
1563	Core-shell copper oxide @ nickel/nickel-iron hydroxides nanoarrays enabled efficient bifunctional electrode for overall water splitting. <i>Electrochimica Acta</i> , 2019, 318, 695-702.	2.6	34
1564	Molecular and Material Engineering of Photocathodes Derivatized with Polyoxometalate-Supported {Mo <sub>3</sub> S <sub>4</sub> } HER Catalysts. <i>Journal of the American Chemical Society</i> , 2019, 141, 11954-11962.	6.6	34
1565	Bimetallic nanostructures: combining plasmonic and catalytic metals for photocatalysis. <i>Advances in Physics: X</i> , 2019, 4, 1619480.	1.5	72
1566	N-doped Mo <sub>2</sub> C nanoblock for efficient hydrogen evolution reaction. <i>Journal of Solid State Electrochemistry</i> , 2019, 23, 2043-2050.	1.2	9
1567	Role of Dissolution Intermediates in Promoting Oxygen Evolution Reaction at RuO <sub>2</sub> (110) Surface. <i>Journal of Physical Chemistry C</i> , 2019, 123, 22151-22157.	1.5	86
1568	3D hierarchical Ni-based nitride heterostructure as a highly efficient pH-universal electrocatalyst for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15823-15830.	5.2	100
1569	High Current Density HER Electrocatalysts: Graphene-like Boron Layer and Tungsten as Key Ingredients in Metal Diborides. <i>ChemSusChem</i> , 2019, 12, 3726-3731.	3.6	41
1570	Interplay of Homogeneous Reactions, Mass Transport, and Kinetics in Determining Selectivity of the Reduction of CO <sub>2</sub> on Gold Electrodes. <i>ACS Central Science</i> , 2019, 5, 1097-1105.	5.3	97
1571	WO <sub>3</sub> cocatalyst improves hydrogen evolution capacity of ZnCdS under visible light irradiation. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 16327-16335.	3.8	48
1572	Artificial photosynthesis systems for catalytic water oxidation. <i>Advances in Inorganic Chemistry</i> , 2019, 74, 3-59.	0.4	35

#	ARTICLE	IF	CITATIONS
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1574	Surface-engineered cobalt oxide nanowires as multifunctional electrocatalysts for efficient Zn-Air batteries-driven overall water splitting. <i>Energy Storage Materials</i> , 2019, 23, 1-7.	9.5	48
1575	Band Gap Narrowing of Zinc Orthogermanate by Dimensional and Defect Modification. <i>Journal of Physical Chemistry C</i> , 2019, 123, 14573-14581.	1.5	6
1576	Chemical and morphological transformation of MOF-derived bimetallic phosphide for efficient oxygen evolution. <i>Nano Energy</i> , 2019, 62, 745-753.	8.2	189
1577	Electrodeposited mesh-type dimensionally stable anode for oxygen evolution reaction in acidic and alkaline media. <i>Chemical Engineering Science</i> , 2019, 206, 424-431.	1.9	12
1578	Nanoporous Palladium-Silver Surface Alloys as Efficient and pH-Universal Catalysts for the Hydrogen Evolution Reaction. <i>ACS Energy Letters</i> , 2019, 4, 1379-1386.	8.8	72
1579	Enhanced electrochemical properties of cellular CoPS@C nanocomposites for HER, OER and Li-ion batteries. <i>RSC Advances</i> , 2019, 9, 14859-14867.	1.7	10
1580	Heterostructures in two-dimensional colloidal metal chalcogenides: Synthetic fundamentals and applications. <i>Nano Research</i> , 2019, 12, 1750-1769.	5.8	33
1581	Tunable catalytic activity of cobalt-intercalated layered MnO <sub>2</sub> for water oxidation through confinement and local ordering. <i>Journal of Catalysis</i> , 2019, 374, 143-149.	3.1	13
1582	Fast microwave-induced synthesis of solid cobalt hydroxide nanorods and their thermal conversion into porous cobalt oxide nanorods for efficient oxygen evolution reaction. <i>Sustainable Energy and Fuels</i> , 2019, 3, 1713-1719.	2.5	17
1583	First principles calculations of surface dependent electronic structures: a study on $\hat{\Gamma}^2$ -FeOOH and $\hat{\Gamma}^3$ -FeOOH. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 18486-18494.	1.3	17
1584	Structural and functional role of anions in electrochemical water oxidation probed by arsenate incorporation into cobalt-oxide materials. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 12485-12493.	1.3	18
1585	Functional macroporous iron-phosphorous films by electrodeposition on colloidal crystal templates. <i>Electrochimica Acta</i> , 2019, 313, 211-222.	2.6	6
1586	Mono- and Multinuclear Water Oxidation Catalysts. <i>ChemSusChem</i> , 2019, 12, 3209-3235.	3.6	22
1587	An Amorphous Nickel-Iron Based Electrocatalyst with Unusual Local Structures for Ultrafast Oxygen Evolution Reaction. <i>Advanced Materials</i> , 2019, 31, e1900883.	11.1	243
1588	Respective influence of stoichiometry and NiOOH formation in hydrogen and oxygen evolution reactions of nickel selenides. <i>Applied Surface Science</i> , 2019, 487, 1152-1158.	3.1	47
1589	Dual Catalytic Cycle of H <sub>2</sub> and H <sub>2</sub> O Oxidations by a Half-Sandwich Iridium Complex: A Theoretical Study. <i>Inorganic Chemistry</i> , 2019, 58, 7274-7284.	1.9	4
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#	ARTICLE	IF	CITATIONS
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1592	Preparation of 3D nanostructured MnCo <sub>2</sub> S <sub>4</sub> as a robust electrocatalyst for overall water splitting. <i>ChemistrySelect</i> , 2019, 4, 4499-4505.	0.7	11
1593	Component synergy and armor protection induced superior catalytic activity and stability of ultrathin Co-Fe spinel nanosheets confined in mesoporous silica shells for ammonia decomposition reaction. <i>Applied Catalysis B: Environmental</i> , 2019, 253, 121-130.	10.8	32
1594	Recent Progress in Bifunctional Electrocatalysts for Overall Water Splitting under Acidic Conditions. <i>ChemElectroChem</i> , 2019, 6, 3244-3253.	1.7	79
1595	Nickel doped cobalt - hollow nanoparticles as an efficient electrocatalyst for hydrogen evolution from neutral water. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 14869-14876.	3.8	16
1596	Efficient Oxygen Evolution Catalysis Triggered by Nickel Phosphide Nanoparticles Compositing with Reduced Graphene Oxide with Controlled Architecture. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 9566-9573.	3.2	34
1597	Decoupling half-reactions of electrolytic water splitting by integrating a polyaniline electrode. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13149-13153.	5.2	53
1598	A photocatalytic system with a bis(thiosemicarbazonato)nickel over CdS nanorods for hydrogen evolution from water under visible light. <i>Inorganic Chemistry Communication</i> , 2019, 102, 5-9.	1.8	12
1599	Fe <sub>2</sub> O <sub>3</sub> nanocatalysts on N-doped carbon nanomaterial for highly efficient electrochemical hydrogen evolution in alkaline. <i>Journal of Power Sources</i> , 2019, 426, 74-83.	4.0	50
1600	Freestanding and Hierarchically Structured Au-Dendrites/3D-Graphene Scaffold Supports Highly Active and Stable Ni <sub>3</sub> S <sub>2</sub> Electrocatalyst toward Overall Water Splitting. <i>ACS Applied Energy Materials</i> , 2019, 2, 3708-3716.	2.5	29
1601	Efficient Electrocatalytic Hydrogenation with a Palladium Membrane Reactor. <i>Journal of the American Chemical Society</i> , 2019, 141, 7815-7821.	6.6	90
1602	Co-Modified MoS <sub>2</sub> Hybrids as Superior Bifunctional Electrocatalysts for Water Splitting Reactions: Integrating Multiple Active Components in One. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900372.	1.9	22
1603	Novel WS <sub>2</sub> -Based 3D Electrode with Protecting Scaffold for Efficient and Stable Hydrogen Evolution. <i>Journal of Physical Chemistry C</i> , 2019, 123, 12142-12148.	1.5	15
1604	Self-supported nanotubular MoP electrode for highly efficient hydrogen evolution via water splitting. <i>Catalysis Communications</i> , 2019, 127, 1-4.	1.6	14
1605	Coupling Co <sub>2</sub> P and CoP nanoparticles with copper ions incorporated Co <sub>9</sub> S <sub>8</sub> nanowire arrays for synergistically boosting hydrogen evolution reaction electrocatalysis. <i>Journal of Colloid and Interface Science</i> , 2019, 550, 10-16.	5.0	47
1606	Nanocubic bimetallic organic framework self-templated from Ni precursor as efficient electrocatalysts for oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 11705-11716.	3.8	11
1607	Analysis of multilayer based TiO <sub>2</sub> and ZnO photoanodes for dye-sensitized solar cells. <i>Materials Research Express</i> , 2019, 6, 075902.	0.8	13
1608	Catalyst-Free Hydrogen Synthesis from Liquid Ethanol: An ab Initio Molecular Dynamics Study. <i>Journal of Physical Chemistry C</i> , 2019, 123, 9202-9208.	1.5	21



#	ARTICLE	IF	CITATIONS
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1610	Unraveling the Excited-State Dynamics of Eosin Y Photosensitizers Using Single-Molecule Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2019, 123, 2592-2600.	1.1	7
1611	Solar-light-driven photocatalytic production of peroxydisulfate over noble-metal loaded WO <sub>3</sub> . <i>Chemical Communications</i> , 2019, 55, 3813-3816.	2.2	20
1612	Ir-Au Bimetallic Nanoparticle Modified Silicon Nanowires with Ultralow Content of Ir for Hydrogen Evolution Reaction. <i>ChemCatChem</i> , 2019, 11, 2126-2130.	1.8	15
1613	Room-Temperature Ultrafast Synthesis of NiCo-Layered Double Hydroxide as an Excellent Electrocatalyst for Water Oxidation. <i>ChemistrySelect</i> , 2019, 4, 2409-2415.	0.7	25
1614	Well-Dispersed Nickel and Zinc-Tailored Electronic Structure of a Transition Metal Oxide for Highly Active Alkaline Hydrogen Evolution Reaction. <i>Advanced Materials</i> , 2019, 31, e1807771.	11.1	216
1615	3D Metallic Ti@Ni <sub>0.85</sub> Se with Triple Hierarchy as High-Efficiency Electrocatalyst for Overall Water Splitting. <i>ChemSusChem</i> , 2019, 12, 2271-2277.	3.6	22
1616	Van der Waals heterostructures of P, BSe, and SiC monolayers. <i>Journal of Applied Physics</i> , 2019, 125, .	1.1	57
1617	Rational Design of Atomic Layers of Pt Anchored on Mo <sub>2</sub> C Nanorods for Efficient Hydrogen Evolution over a Wide pH Range. <i>Small</i> , 2019, 15, e1900014.	5.2	52
1618	Portland cement clinker production using concentrated solar energy – A proof-of-concept approach. <i>Solar Energy</i> , 2019, 183, 677-688.	2.9	25
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1621	Improved Interfacial Charge Transfer Dynamics and Onset Shift in Nanostructured Hematite Photoanodes via Efficient Ti <sup>4+</sup> /Sn <sup>4+</sup> Heterogeneous Self-Doping Through Controlled TiO <sub>2</sub> Underlayers. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 6947-6958.	3.2	25
1622	A trinuclear cobalt-based coordination polymer as an efficient oxygen evolution electrocatalyst at neutral pH. <i>Journal of Colloid and Interface Science</i> , 2019, 545, 269-275.	5.0	22
1623	Nanoscale palladium as a new benchmark electrocatalyst for water oxidation at low overpotential. <i>Journal of Materials Chemistry A</i> , 2019, 7, 9137-9144.	5.2	65
1624	Formation of Prussian blue analog on Ni foam via in-situ electrodeposition method and conversion into Ni-Fe-mixed phosphates as efficient oxygen evolution electrode. <i>Electrochimica Acta</i> , 2019, 313, 91-98.	2.6	35
1625	Tailoring the Electronic Structure of Co <sub>2</sub> P by N Doping for Boosting Hydrogen Evolution Reaction at All pH Values. <i>ACS Catalysis</i> , 2019, 9, 3744-3752.	5.5	357
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#	ARTICLE	IF	CITATIONS
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1628	Transition Metal (Fe, Co and Ni) Carbide Nitride (M <sub>2</sub> C <sub>3</sub> N) Nanocatalysts: Structure and Electrocatalytic Applications. ChemCatChem, 2019, 11, 2780-2792.	1.8	46
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1653	An Amorphous Cobalt Borate Nanosheet-Coated Cobalt Boride Hybrid for Highly Efficient Alkaline Water Oxidation Reaction. ACS Sustainable Chemistry and Engineering, 2019, 7, 5620-5625.	3.2	51
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1665	Facile and sustainable fabrication of transparent mesoporous IrO <sub>x</sub> films formed by nanoparticle assembly for efficient electrocatalytic water oxidation. <i>Sustainable Energy and Fuels</i> , 2019, 3, 3489-3497.	2.5	3
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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1756	Confining Sub-Nanometer Pt Clusters in Hollow Mesoporous Carbon Spheres for Boosting Hydrogen Evolution Activity. <i>Advanced Materials</i> , 2020, 32, e1901349.	11.1	255
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#	ARTICLE	IF	CITATIONS
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1868	Recent Studies on Multifunctional Electrocatalysts for Fuel Cell by Various Nanomaterials. <i>Catalysts</i> , 2020, 10, 621.	1.6	4
1869	Recent trends in functionalized nanoparticles loaded polymeric composites: An energy application. <i>Materials Science for Energy Technologies</i> , 2020, 3, 515-525.	1.0	26
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1929	Modulation in Ruthenium-Cobalt Electronic Structure for Highly Efficient Overall Water Splitting. ACS Applied Energy Materials, 2020, 3, 1869-1874.	2.5	25
1930	Visible light-assisted reduction of CO <sub>2</sub> into formaldehyde by heteroleptic ruthenium metal complex-TiO <sub>2</sub> hybrids in an aqueous medium. Green Chemistry, 2020, 22, 1650-1661.	4.6	25
1931	Amorphous nickel sulfide nanoparticles anchored on N-doped graphene nanotubes with superior properties for high-performance supercapacitors and efficient oxygen evolution reaction. Nanoscale, 2020, 12, 4655-4666.	2.8	29
1932	Design, Synthesis and High HER Performances of 3D Ni/Mo Sulfide on Ni Foam. ChemCatChem, 2020, 12, 1647-1652.	1.8	18

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1934	Prussian blue analog nanocubes tuning synthesis of coral-like Ni <sub>3</sub> S <sub>2</sub> @MIL-53(NiFeCo) core-shell nanowires array and boosting oxygen evolution reaction. <i>Journal of Power Sources</i> , 2020, 451, 227295.	4.0	22
1935	A solid-state integrated photo-supercapacitor based on ZnO nanorod arrays decorated with Ag <sub>2</sub> S quantum dots as the photoanode and a PEDOT charge storage counter-electrode. <i>RSC Advances</i> , 2020, 10, 5712-5721.	1.7	23
1936	Fundamental aspects and recent advances in transition metal nitrides as electrocatalysts for hydrogen evolution reaction: A review. <i>Current Opinion in Solid State and Materials Science</i> , 2020, 24, 100805.	5.6	262
1937	The Importance of Ligand Selection on the Formation of Metal Phosphonate-Derived CoMoP and CoMoP <sub>2</sub> Nanoparticles for Catalytic Hydrogen Evolution. <i>ACS Applied Nano Materials</i> , 2020, 3, 4147-4156.	2.4	23
1938	Self-Supported Vanadium Carbide by an Electropolymerization-Assisted Method for Efficient Hydrogen Production. <i>ChemSusChem</i> , 2020, 13, 3671-3678.	3.6	22
1939	Metal-Organic Framework-Based Catalysts with Single Metal Sites. <i>Chemical Reviews</i> , 2020, 120, 12089-12174.	23.0	692
1940	Synergistic tuning of oxygen vacancies and d-band centers of ultrathin cobaltous dihydroxycarbonate nanowires for enhanced electrocatalytic oxygen evolution. <i>Nanoscale</i> , 2020, 12, 11735-11745.	2.8	10
1941	Monocrystalline silicon-based tandem configuration for solar-to-hydrogen conversion. <i>Inorganic Chemistry Communication</i> , 2020, 116, 107926.	1.8	4
1942	Molecular Catalysts Boost the Rate of Electrolytic CO <sub>2</sub> Reduction. <i>ACS Energy Letters</i> , 2020, 5, 1512-1518.	8.8	52
1943	Asymmetric conductive polymer composite foam for absorption dominated ultra-efficient electromagnetic interference shielding with extremely low reflection characteristics. <i>Journal of Materials Chemistry A</i> , 2020, 8, 9146-9159.	5.2	196
1944	Vanadium nitride for aqueous supercapacitors: a topic review. <i>Journal of Materials Chemistry A</i> , 2020, 8, 8218-8233.	5.2	88
1945	Recent advances in nanostructured intermetallic electrocatalysts for renewable energy conversion reactions. <i>Journal of Materials Chemistry A</i> , 2020, 8, 8195-8217.	5.2	64
1946	Slow magnetic relaxation and water oxidation activity of dinuclear Co <sup>II</sup> Co <sup>III</sup> and unique triangular Co <sup>II</sup> Co <sup>II</sup> Co <sup>III</sup> mixed-valence complexes. <i>Dalton Transactions</i> , 2020, 49, 6328-6340.	1.6	15
1947	Recent progress in self-supported two-dimensional transition metal oxides and (oxy)hydroxides as oxygen evolution reaction catalysts. <i>Sustainable Energy and Fuels</i> , 2020, 4, 2625-2637.	2.5	28
1948	Fabrication of platinum thin films for ultra-high electrocatalytic hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 15076-15085.	3.8	23
1949	Recent progress of precious-metal-free electrocatalysts for efficient water oxidation in acidic media. <i>Journal of Energy Chemistry</i> , 2020, 51, 113-133.	7.1	66
1950	Manipulating dehydrogenation kinetics through dual-doping Co <sub>3</sub> N electrode enables highly efficient hydrazine oxidation assisting self-powered H <sub>2</sub> production. <i>Nature Communications</i> , 2020, 11, 1853.	5.8	229

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1952	Optimizing Band Gap of Inorganic Halide Perovskites by Donor-acceptor Pair Codoping. Inorganic Chemistry, 2020, 59, 6053-6059.	1.9	8
1953	Exploring single atom catalysts of transition-metal doped phosphorus carbide monolayer for HER: A first-principles study. Journal of Energy Chemistry, 2021, 52, 155-162.	7.1	54
1954	Influence of interlayer water molecules in Ni-based catalysts for oxygen evolution reaction. Journal of Energy Chemistry, 2021, 53, 316-322.	7.1	17
1955	In-situ surface self-reconstruction in ternary transition metal dichalcogenide nanorod arrays enables efficient electrocatalytic oxygen evolution. Journal of Energy Chemistry, 2021, 55, 10-16.	7.1	28
1956	A Cobalt@Cucurbit[5]uril Complex as a Highly Efficient Supramolecular Catalyst for Electrochemical and Photoelectrochemical Water Splitting. Angewandte Chemie, 2021, 133, 2004-2013.	1.6	18
1957	Recent Advances in 1D Electrospun Nanocatalysts for Electrochemical Water Splitting. Small Structures, 2021, 2, 2000048.	6.9	157
1958	Tailoring the Ca-doped bismuth ferrite for electrochemical oxygen evolution reaction and photocatalytic activity. Applied Surface Science, 2021, 540, 148387.	3.1	32
1959	Morphologically controlled cobalt oxide nanoparticles for efficient oxygen evolution reaction. Journal of Colloid and Interface Science, 2021, 582, 322-332.	5.0	51
1960	New 3-D Mn(II) coordination polymer with redox active oxalate linker; an efficient and robust electrocatalyst for oxygen evolution reaction. Inorganica Chimica Acta, 2021, 514, 119982.	1.2	3
1961	Anion-mediated transition metal electrocatalysts for efficient water electrolysis: Recent advances and future perspectives. Coordination Chemistry Reviews, 2021, 427, 213552.	9.5	66
1962	Ultrafine VN nanoparticles confined in Co@N-doped carbon nanotubes for boosted hydrogen evolution reaction. Journal of Alloys and Compounds, 2021, 853, 157257.	2.8	22
1963	Improvement of the electrocatalytic performance of FeP in neutral electrolytes with Fe nanoparticles. Chemical Engineering Journal, 2021, 408, 127330.	6.6	33
1964	Directly application of bimetallic 2D-MOF for advanced electrocatalytic oxygen evolution. International Journal of Hydrogen Energy, 2021, 46, 416-424.	3.8	30
1965	In-situ constructed Ru-rich porous framework on NiFe-based ribbon for enhanced oxygen evolution reaction in alkaline solution. Journal of Materials Science and Technology, 2021, 70, 197-204.	5.6	23
1966	A Cobalt@Cucurbit[5]uril Complex as a Highly Efficient Supramolecular Catalyst for Electrochemical and Photoelectrochemical Water Splitting. Angewandte Chemie - International Edition, 2021, 60, 1976-1985.	7.2	55
1967	Electrocatalytic Water Oxidation by a Phosphorus- and Nitrogen-coordinated Pincer Cobalt Complex. Inorganic Chemistry, 2021, 60, 614-622.	1.9	14
1968	Local probe investigation of electrocatalytic activity. Chemical Science, 2021, 12, 71-98.	3.7	13

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1970	Photothermal storage and controllable release of a phase-change azobenzene/aluminum nitride aerogel composite. <i>Composites Communications</i> , 2021, 23, 100575.	3.3	31
1971	Electrochemical Polymerization Provides a Function-Integrated System for Water Oxidation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 5965-5969.	7.2	13
1972	Electrochemical Polymerization Provides a Function-Integrated System for Water Oxidation. <i>Angewandte Chemie</i> , 2021, 133, 6030-6034.	1.6	5
1973	DNA as template and P-source for synthesis of Co <sub>2</sub> P/Co <sub>2</sub> N core-shell nanostructure embedded in N-doped carbon nanofiber derived from electrospun precursor for oxygen evolution reaction. <i>Electrochimica Acta</i> , 2021, 367, 137562.	2.6	12
1974	Surface-assembled Fe-Oxide colloidal nanoparticles for high performance electrocatalytic water oxidation. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 5207-5222.	3.8	14
1975	Recent Advances in Electrocatalysis of Oxygen Evolution Reaction using Noble-Metal, Transition-Metal, and Carbon-Based Materials. <i>ChemElectroChem</i> , 2021, 8, 447-483.	1.7	68
1976	Photoactive Conjugated Polymer-Based Hybrid Biosystems for Enhancing Cyanobacterial Photosynthesis and Regulating Redox State of Protein. <i>Advanced Functional Materials</i> , 2021, 31, 2007814.	7.8	31
1977	Recent progress in ammonia fuel cells and their potential applications. <i>Journal of Materials Chemistry A</i> , 2021, 9, 727-752.	5.2	177
1978	Facile synthesis of novel carbon dots@metal organic framework composite for remarkable and highly sustained oxygen evolution reaction. <i>Journal of Alloys and Compounds</i> , 2021, 856, 158038.	2.8	34
1979	Research advances of light-driven hydrogen evolution using polyoxometalate-based catalysts. <i>Chinese Journal of Catalysis</i> , 2021, 42, 855-871.	6.9	65
1980	Ultrafine ruthenium-iridium alloy nanoparticles well-dispersed on N-rich carbon frameworks as efficient hydrogen-generation electrocatalysts. <i>Chemical Engineering Journal</i> , 2021, 417, 128105.	6.6	28
1981	A Fe-Ni <sub>5</sub> P <sub>4</sub> /Fe-Ni <sub>2</sub> P heterojunction electrocatalyst for highly efficient solar-to-hydrogen generation. <i>Journal of Materials Chemistry A</i> , 2021, 9, 1221-1229.	5.2	33
1982	Integrated transition metal and compounds with carbon nanomaterials for electrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2021, 9, 3786-3827.	5.2	140
1983	Photochemical Water Oxidation Using a Doubly N-Confused Hexaphyrin Dinuclear Cobalt Complex. <i>Inorganic Chemistry</i> , 2021, 60, 1284-1288.	1.9	10
1984	Unveiling the Hydration Structure of Ferrihydrite for Hole Storage in Photoelectrochemical Water Oxidation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 6691-6698.	7.2	33
1985	Chemo- and regioselective hydroformylation of alkenes with CO <sub>2</sub> /H <sub>2</sub> over a bifunctional catalyst. <i>Green Chemistry</i> , 2021, 23, 8040-8046.	4.6	13
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1988	Monolithically-integrated BiVO <sub>4</sub> /p+n GaAs <sub>1-x</sub> P <sub>x</sub> tandem photoanodes capable of unassisted solar water splitting. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 1642-1655.	3.8	6
1989	Surface defect engineering of metal oxides photocatalyst for energy application and water treatment. <i>Journal of Materiomics</i> , 2021, 7, 388-418.	2.8	117
1990	Cobalt porphyrin intercalation into zirconium phosphate layers for electrochemical water oxidation. <i>Sustainable Energy and Fuels</i> , 2021, 5, 430-437.	2.5	14
1991	Porous Co <sub>2</sub> P film coated on carbon fiber as highly performance electrocatalyst toward overall water splitting. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 31-40.	3.8	13
1992	Colloidal Nanocrystals as Electrocatalysts with Tunable Activity and Selectivity. <i>ACS Catalysis</i> , 2021, 11, 1248-1295.	5.5	51
1993	Multimetallic nanostructures for electrocatalytic oxygen evolution reaction in acidic media. <i>Materials Chemistry Frontiers</i> , 2021, 5, 4445-4473.	3.2	14
1994	Ir-based bifunctional electrocatalysts for overall water splitting. <i>Catalysis Science and Technology</i> , 2021, 11, 4673-4689.	2.1	53
1995	Electrocatalytic hydrogen evolution using hybrid electrodes based on single-walled carbon nanohorns and cobalt(II) polypyridine complexes. <i>Journal of Materials Chemistry A</i> , 2021, 9, 20032-20039.	5.2	10
1996	Research Progress of Electrocatalyst for Hydrogen Evolution Reaction. <i>Hans Journal of Nanotechnology</i> , 2021, 11, 155-165.	0.1	0
1997	Design of molecular water oxidation catalysts with earth-abundant metal ions. <i>Chemical Society Reviews</i> , 2021, 50, 6790-6831.	18.7	102
1998	Polypyridyl Co complex-based water reduction catalysts: why replace a pyridine group with isoquinoline rather than quinoline?. <i>Dalton Transactions</i> , 2021, 50, 2042-2049.	1.6	8
1999	Efficient homogeneous electrocatalytic hydrogen evolution using a Ni-containing polyoxometalate catalyst. <i>Chemical Communications</i> , 2021, 57, 9910-9913.	2.2	15
2000	Stacking effects in van der Waals heterostructures of blueP and Janus XYO (X = Ti, Zr, Hf; Y = S, Se) monolayers. <i>RSC Advances</i> , 2021, 11, 12189-12199.	1.7	7
2001	Sulfur doped ruthenium nanoparticles as a highly efficient electrocatalyst for the hydrogen evolution reaction in alkaline media. <i>Catalysis Science and Technology</i> , 2021, 11, 3865-3872.	2.1	6
2002	Electronic effects on polypyridyl Co complex-based water reduction catalysts. <i>RSC Advances</i> , 2021, 11, 24359-24365.	1.7	2
2003	Two-dimensional metal-free boron chalcogenides B <sub>2</sub> X <sub>3</sub> (X = Se and Te) as photocatalysts for water splitting under visible light. <i>Nanoscale</i> , 2021, 13, 3627-3632.	2.8	9
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2006	A new strategy for constructing artificial light-harvesting systems: supramolecular self-assembly gels with AIE properties. Soft Matter, 2021, 17, 5666-5670.	1.2	7
2007	Cathodic corrosion activated Fe-based nanoglass as a highly active and stable oxygen evolution catalyst for water splitting. Journal of Materials Chemistry A, 2021, 9, 12152-12160.	5.2	23
2008	Synergistically enhanced performance of transition-metal doped Ni <sub>2</sub> P for supercapacitance and overall water splitting. Dalton Transactions, 2021, 50, 11821-11833.	1.6	25
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2010	Metal-organic frameworks and their derivatives as electrocatalysts for the oxygen evolution reaction. Chemical Society Reviews, 2021, 50, 2663-2695.	18.7	333
2011	Synthesis of Y <sub>2</sub> Ti <sub>2</sub> O <sub>5</sub> S <sub>2</sub> by thermal sulfidation for photocatalytic water oxidation and reduction under visible light irradiation. Research on Chemical Intermediates, 2021, 47, 225-234.	1.3	19
2012	Pencil graphite rods decorated with nickel and nickel-iron as low-cost oxygen evolution reaction electrodes. Sustainable Energy and Fuels, 2021, 5, 3929-3938.	2.5	7
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2014	Graphitic Carbon Nitride Nanostructures as Potent Catalysts for Water Splitting: Theoretical Insights. RSC Nanoscience and Nanotechnology, 2021, , 127-173.	0.2	2
2015	Electrochemical behaviors of a pincer-type NNN-Fe complex and catalytic H <sub>2</sub> evolution activity. Chemical Communications, 2021, 57, 7497-7500.	2.2	4
2016	Porous Cu <sub>2</sub> BaSn(S,Se) <sub>4</sub> Film as a Photocathode Using Non-Toxic Solvent and a Ball-Milling Approach. ACS Applied Energy Materials, 2021, 4, 81-87.	2.5	7
2017	Electrochemical biomass upgrading on CoOOH nanosheets in a hybrid water electrolyzer. Green Chemistry, 2021, 23, 2525-2530.	4.6	31
2018	Selective Electrochemical Alkaline Seawater Oxidation Catalyzed by Cobalt Carbonate Hydroxide Nanorod Arrays with Sequential Proton-Electron Transfer Properties. ACS Sustainable Chemistry and Engineering, 2021, 9, 905-913.	3.2	25
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2020	Highly efficient H <sub>2</sub> production and size-selective AgCl synthesis <i>via</i> electrolytic cell design. Journal of Materials Chemistry A, 2021, 9, 22871-22877.	5.2	2
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2028	Enhanced electrocatalytic activity of CuO-SnO <sub>2</sub> nanocomposite in alkaline medium. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	1.1	6
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2030	Toward Molecular Mechanisms of Solar Water Splitting in Semiconductor/Manganese Materials and Photosystem II. Advances in Photosynthesis and Respiration, 2021, , 105-129.	1.0	1
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2032	Photoacoustics Reveals Specific Thermodynamic Information in Photosynthesis. Advances in Photosynthesis and Respiration, 2021, , 499-532.	1.0	0
2033	Hierarchical fibrous bimetallic electrocatalyst based on ZnO-MoS <sub>2</sub> composite nanostructures as high performance for hydrogen evolution reaction. Journal of Electroanalytical Chemistry, 2021, 883, 115061.	1.9	19
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2035	Multi-Elemental Electronic Coupling for Enhanced Hydrogen Generation. Small, 2021, 17, e2006617.	5.2	6
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2040	Recent innovations of silk-derived electrocatalysts for hydrogen evolution reaction, oxygen evolution reaction and oxygen reduction reaction. International Journal of Hydrogen Energy, 2021, 46, 7848-7865.	3.8	30
2041	Effects of water content on electrochemical capacitive behavior of nanostructured Cu <sub>3</sub> (BTC) <sub>2</sub> MOF prepared in aqueous solution. Electrochimica Acta, 2021, 368, 137616.	2.6	17



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2047	Three-Dimensional Needle Branch-like PANI/CoNiP Hybrid Electrocatalysts for Hydrogen Evolution Reaction in Acid Media. ACS Applied Energy Materials, 2021, 4, 2471-2480.	2.5	18
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2050	Recent development on self-supported transition metal-based catalysts for water electrolysis at large current density. Applied Materials Today, 2021, 22, 100913.	2.3	42
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2053	Heterogeneous Synergetic Effect of Metal-Oxide Interfaces for Efficient Hydrogen Evolution in Alkaline Solutions. ACS Applied Materials & Interfaces, 2021, 13, 13838-13847.	4.0	26
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2063	Physical Separation of H <sub>2</sub> Activation from Hydrogenation Chemistry Reveals the Specific Role of Secondary Metal Catalysts. Angewandte Chemie - International Edition, 2021, 60, 11937-11942.	7.2	18
2064	Single Platinum Atoms Immobilized on Monolayer Tungsten Trioxide Nanosheets as an Efficient Electrocatalyst for Hydrogen Evolution Reaction. Advanced Functional Materials, 2021, 31, 2009770.	7.8	53
2065	Strongly stabilized integrated bimetallic oxide of Fe <sub>2</sub> O <sub>3</sub> -MoO <sub>3</sub> Nano-crystal entrapped N-doped graphene as a superior oxygen reduction reaction electrocatalyst. Chemical Engineering Journal, 2021, 410, 128358.	6.6	47
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2076	Periodicity in the Electrochemical Dissolution of Transition Metals. Angewandte Chemie - International Edition, 2021, 60, 13343-13349.	7.2	40
2077	Regulation of Perovskite Surface Stability on the Electrocatalysis of Oxygen Evolution Reaction. , 2021, 3, 721-737.		61
2078	Aqueous Rechargeable Multivalent Metal-Ion Batteries: Advances and Challenges. Advanced Energy Materials, 2021, 11, 2100608.	10.2	122

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2080	Interfacial Engineering of Nickel Hydroxide on Cobalt Phosphide for Alkaline Water Electrocatalysis. <i>Advanced Functional Materials</i> , 2021, 31, 2101578.	7.8	101
2081	Two new polyoxoniobosilicate-based compounds: Syntheses, structures, characterizations and their catalytic properties for epoxidation and water oxidation. <i>Journal of Solid State Chemistry</i> , 2021, 297, 122029.	1.4	4
2082	Photocatalytic Transfer Hydrogenation in Water: Insight into Mechanism and Catalyst Speciation. <i>Organometallics</i> , 2021, 40, 1482-1491.	1.1	6
2083	Atomic Sulfur Filling Oxygen Vacancies Optimizes H Absorption and Boosts the Hydrogen Evolution Reaction in Alkaline Media. <i>Angewandte Chemie</i> , 2021, 133, 14236-14242.	1.6	27
2084	Hot Electrons in TiO <sub>2</sub> –Noble Metal Nano-Heterojunctions: Fundamental Science and Applications in Photocatalysis. <i>Nanomaterials</i> , 2021, 11, 1249.	1.9	40
2085	Spin Effect on Oxygen Electrocatalysis. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2100034.	2.8	32
2086	Electrochemical Catalysts for Green Hydrogen Energy. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2100019.	2.8	4
2087	Atomic Sulfur Filling Oxygen Vacancies Optimizes H Absorption and Boosts the Hydrogen Evolution Reaction in Alkaline Media. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 14117-14123.	7.2	129
2088	Controllable Synthesis of 2D Nonlayered Cr <sub>2</sub> S <sub>3</sub> Nanosheets and Their Electrocatalytic Activity Toward Oxygen Evolution Reaction. <i>Frontiers in Chemical Engineering</i> , 2021, 3, .	1.3	5
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2091	Efficient photocatalytic generation of hydrogen by twin Zn Cd S nanorods decorated with noble metal-free co-catalyst and reduction of 4-nitrophenol in water. <i>Applied Surface Science</i> , 2021, 550, 149367.	3.1	20
2092	MXene decorated by phosphorus-doped TiO <sub>2</sub> for photo-enhanced electrocatalytic hydrogen evolution reaction. <i>Renewable Energy</i> , 2021, 170, 858-865.	4.3	37
2093	Conductivity Modulation of 3D-Printed Shellular Electrodes through Embedding Nanocrystalline Intermetallics into Amorphous Matrix for Ultrahigh-Current Oxygen Evolution. <i>Advanced Energy Materials</i> , 2021, 11, 2100968.	10.2	40
2094	Prevailing conjugated porous polymers for electrochemical energy storage and conversion: Lithium-ion batteries, supercapacitors and water-splitting. <i>Coordination Chemistry Reviews</i> , 2021, 436, 213782.	9.5	52
2095	Recent advances in nanostructured electrocatalysts for hydrogen evolution reaction. <i>Rare Metals</i> , 2021, 40, 3375-3405.	3.6	112
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2099	NiCo layered double hydroxides derived Ni <sub>0.67</sub> Co <sub>0.33</sub> (PO <sub>3</sub> ) <sub>2</sub> as stable and efficient electrocatalysts for overall water splitting. Journal of Alloys and Compounds, 2021, 869, 159311.	2.8	8
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2108	3D self-supporting mixed transition metal oxysulfide nanowires on porous graphene networks for oxygen evolution reaction in alkaline solution. Journal of Electroanalytical Chemistry, 2021, 893, 115308.	1.9	10
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2113	Achieving Selective and Efficient Electrocatalytic Activity for CO <sub>2</sub> Reduction on N-Doped Graphene. Frontiers in Chemistry, 2021, 9, 734460.	1.8	9
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2116	Molecular Engineering of Photocathodes based on Polythiophene Organic Semiconductors for Photoelectrochemical Hydrogen Generation. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 40602-40611.	4.0	8
2117	Dual Doping of MoP with M(Mn,Fe) and S to Achieve High Hydrogen Evolution Reaction Activity in Both Acidic and Alkaline Media. <i>ChemCatChem</i> , 2021, 13, 4392-4402.	1.8	6
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2124	Metamorphosis of Heterostructured Surface-mounted Metal-Organic Frameworks Yielding Record Oxygen Evolution Mass Activities. <i>Advanced Materials</i> , 2021, 33, e2103218.	11.1	43
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2126	Covalent organic frameworks: Advances in synthesis and applications. <i>Materials Today Communications</i> , 2021, 28, 102612.	0.9	18
2127	An Electrospun Porous CuBi <sub>2</sub> O <sub>4</sub> Nanofiber Photocathode for Efficient Solar Water Splitting. <i>Polymers</i> , 2021, 13, 3341.	2.0	2
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2129	A stable and active three-dimensional carbon based trimetallic electrocatalyst for efficient overall wastewater splitting. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 30762-30779.	3.8	9
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2134	Interface Engineering of Heterogeneous $\text{CeO}_2/\text{CoO}$ Nanofibers with Rich Oxygen Vacancies for Enhanced Electrocatalytic Oxygen Evolution Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 46998-47009.	4.0	40
2135	Electrodeposited Cobalt Stannide: A Highly Efficient Oxygen Evolution Reaction Catalyst. <i>Journal of the Electrochemical Society</i> , 2021, 168, 096505.	1.3	3
2136	Carbon quantum dots enriching molecular nickel polyoxometalate over CdS semiconductor for photocatalytic water splitting. <i>Applied Catalysis B: Environmental</i> , 2021, 293, 120214.	10.8	112
2137	Progress of the Elements Doped $\text{NaFeO}_2$ Cathode Materials for High Performance Sodium-ion Batteries. <i>ChemistrySelect</i> , 2021, 6, 9701-9708.	0.7	5
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2141	Synthesis, characterization, structural, redox and electrocatalytic proton reduction properties of cobalt polypyridyl complexes. <i>Inorganica Chimica Acta</i> , 2022, 529, 120637.	1.2	5
2142	Preparation and capacitive storage properties of multidimensional (1-D and 2-D) nanocarbon-hybridized N-containing porous carbon for carbon/carbon supercapacitor: Nanocarbon-aided capacitance boosting. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 627, 127225.	2.3	0
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2144	Bismuth based photoelectrodes for solar water splitting. <i>Journal of Energy Chemistry</i> , 2021, 61, 517-530.	7.1	47
2145	Moving toward a framework for electricity and heat equivalence in energy systems analysis. <i>IScience</i> , 2021, 24, 103123.	1.9	2
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2147	In-situ reconstruction of non-noble multi-metal core-shell oxyfluorides for water oxidation. <i>Journal of Colloid and Interface Science</i> , 2021, 602, 55-63.	5.0	7
2148	Facile preparation of sugarcane bagasse-derived carbon supported $\text{MoS}_2$ nanosheets for hydrogen evolution reaction. <i>Industrial Crops and Products</i> , 2021, 172, 114064.	2.5	6
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2152	Hybrid heterojunction of molybdenum disulfide/single cobalt atoms anchored nitrogen, sulfur-doped carbon nanotube /cobalt disulfide with multiple active sites for highly efficient hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2021, 298, 120630.	10.8	52
2153	Facile coordination driven synthesis of metal-organic gels toward efficiently electrocatalytic overall water splitting. <i>Applied Catalysis B: Environmental</i> , 2021, 299, 120641.	10.8	39
2154	Ni <sub>4</sub> Mo alloy nanosheets coating on carbon tube arrays as high-performance electrocatalyst toward overall water splitting. <i>Journal of Alloys and Compounds</i> , 2021, 886, 161180.	2.8	17
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2156	Bioinspired molecular clusters for water oxidation. <i>Coordination Chemistry Reviews</i> , 2021, 448, 214164.	9.5	24
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2173	Photoelectrochemical hydrogen evolution using CdTe <sub>x</sub> S <sub>1-x</sub> quantum dots as sensitizers on NiO photocathodes. <i>Dalton Transactions</i> , 2021, 50, 696-704.	1.6	11
2174	Constructing CuNi dual active sites on ZnIn <sub>2</sub> S <sub>4</sub> for highly photocatalytic hydrogen evolution. <i>Catalysis Science and Technology</i> , 2021, 11, 2753-2761.	2.1	36
2175	Large-current-stable bifunctional nanoporous Fe-rich nitride electrocatalysts for highly efficient overall water and urea splitting. <i>Journal of Materials Chemistry A</i> , 2021, 9, 10199-10207.	5.2	87
2177	An Efficient and Earth-Abundant Oxygen-Evolving Electrocatalyst Based on Amorphous Metal Borides. <i>Advanced Energy Materials</i> , 2018, 8, 1701475.	10.2	292
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2208	Engineering [Fe(CN) <sub>6</sub> ] <sup>3-</sup> vacancy via free-chelating agents in Prussian blue analogues on reduced graphene oxide for efficient oxygen evolution reaction. <i>Applied Surface Science</i> , 2022, 574, 151620.	3.1	15
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