

# Precision and correctness in the evaluation of electrocatalytic activity parameters with a critical assessment

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Citation Report

#	ARTICLE	IF	CITATIONS
2	Ultra-fast pyrolysis of ferrocene to form Fe/C heterostructures as robust oxygen evolution electrocatalysts. <i>Journal of Materials Chemistry A</i> , 2018, 6, 21577-21584.	5.2	50
3	Simple preparation of carbon-bimetal oxide nanospinel for high-performance bifunctional oxygen electrocatalysts. <i>New Journal of Chemistry</i> , 2018, 42, 20156-20162.	1.4	8
4	Study on the Stability of $\text{Co}_x\text{M}_{3-x}\text{O}_4$ (M = Ni, Mn and Ce) Nanowire Array Electrodes for Electrochemical Oxygen Evolution at Large Current Densities. <i>Journal of the Electrochemical Society</i> , 2018, 165, A3496-A3503.	1.3	10
5	Remarkable Bifunctional Oxygen and Hydrogen Evolution Electrocatalytic Activities with Trace-Level Fe Doping in Ni- and Co-Layered Double Hydroxides for Overall Water-Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 42453-42468.	4.0	107
6	A New Class of $\text{Zn}_{1-x}\text{Fe}_x\text{OxS}$ and $\text{Zn}_{1-x}\text{Fe}_x\text{LDH}$ Nanostructured Material with Remarkable Bifunctional Oxygen and Hydrogen Evolution Electrocatalytic Activities for Overall Water Splitting. <i>Small</i> , 2018, 14, e1803638.	5.2	56
7	Electrochemical Corrosion Engineering for Ni-Fe Oxides with Superior Activity toward Water Oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 42217-42224.	4.0	38
8	Earth-Abundant Electrocatalysts in Proton Exchange Membrane Electrolyzers. <i>Catalysts</i> , 2018, 8, 657.	1.6	51
9	Sulfur-Doped Dicobalt Phosphide Outperforming Precious Metals as a Bifunctional Electrocatalyst for Alkaline Water Electrolysis. <i>Chemistry of Materials</i> , 2018, 30, 8861-8870.	3.2	71
10	Enhancement of Bromine Reversibility using Chemically Modified Electrodes and their Applications in Zinc Bromine Hybrid Redox Flow Batteries. <i>ChemElectroChem</i> , 2018, 5, 3411-3418.	1.7	24
11	Efficient Electrocatalytic Oxygen Evolution at Extremely High Current Density over 3D Ultrasmall Zero-Valent Iron-Coupled Nickel Sulfide Nanosheets. <i>ChemElectroChem</i> , 2018, 5, 3866-3872.	1.7	43
12	Cobalt-Iron Oxide Nanoarrays Supported on Carbon Fiber Paper with High Stability for Electrochemical Oxygen Evolution at Large Current Densities. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 39809-39818.	4.0	60
13	$\text{g-C}_3\text{N}_4/\text{CeO}_2/\text{Fe}_3\text{O}_4$ Ternary Composite as an Efficient Bifunctional Catalyst for Overall Water Splitting. <i>ChemCatChem</i> , 2018, 10, 5587-5592.	1.8	37
14	Microwave annealing promoted in-situ electrochemical activation of Ni <sub>3</sub> S <sub>2</sub> nanowires for water electrolysis. <i>Journal of Catalysis</i> , 2018, 368, 112-119.	3.1	15
15	Stabilization of Cobalt-Polyoxometalate over Poly(ionic liquid) Composites for Efficient Electrocatalytic Water Oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 38872-38879.	4.0	32
16	Emerging Materials in Heterogeneous Electrocatalysis Involving Oxygen for Energy Harvesting. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 33737-33767.	4.0	52
17	General Construction of Molybdenum-Based Nanowire Arrays for pH-Universal Hydrogen Evolution Electrocatalysis. <i>Advanced Functional Materials</i> , 2018, 28, 1804600.	7.8	134
18	Earth-Abundant Transition-Metal-Based Electrocatalysts for Water Electrolysis to Produce Renewable Hydrogen. <i>Chemistry - A European Journal</i> , 2018, 24, 18334-18355.	1.7	203
19	Construction of a hierarchical NiFe layered double hydroxide with a 3D mesoporous structure as an advanced electrocatalyst for water oxidation. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 1795-1799.	3.0	15

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20	Hierarchical CoP/Ni <sub>5</sub> /P <sub>4</sub> /CoP microsheet arrays as a robust pH-universal electrocatalyst for efficient hydrogen generation. Energy and Environmental Science, 2018, 11, 2246-2252.	15.6	306
21	Sloughing a Precursor Layer to Expose Active Stainless Steel Catalyst for Water Oxidation. ACS Applied Materials & Interfaces, 2018, 10, 24499-24507.	4.0	25
22	FeP Nanocrystals Embedded in N-Doped Carbon Nanosheets for Efficient Electrocatalytic Hydrogen Generation over a Broad pH Range. ACS Sustainable Chemistry and Engineering, 2018, 6, 11587-11594.	3.2	56
23	Metal-Organic Framework Based Catalysts for Hydrogen Evolution. Advanced Energy Materials, 2018, 8, 1801193.	10.2	345
24	Electroless Plating of Highly Efficient Bifunctional Boride-Based Electrodes toward Practical Overall Water Splitting. Advanced Energy Materials, 2018, 8, 1801372.	10.2	127
25	Shrinking the Hydrogen Overpotential of Cu by 1 V and Imparting Ultralow Charge Transfer Resistance for Enhanced H <sub>2</sub> Evolution. ACS Catalysis, 2018, 8, 5686-5697.	5.5	42
26	Modification of MIL-125(Ti) by Incorporating Various Transition Metal Oxide Nanoparticles for Enhanced Photocurrent during Hydrogen and Oxygen Evolution Reactions. ChemistrySelect, 2019, 4, 8508-8515.	0.7	15
27	Double functionalization of N-doped carbon carved hollow nanocubes with mixed metal phosphides as efficient bifunctional catalysts for electrochemical overall water splitting. Nano Energy, 2019, 65, 103995.	8.2	111
28	Fe-doping effect on CoTe catalyst with greatly boosted intrinsic activity for electrochemical oxygen evolution reaction. Electrochimica Acta, 2019, 321, 134656.	2.6	44
29	Mechanism and Key Parameters for Catalyst Evaluation. SpringerBriefs in Materials, 2019, , 11-29.	0.1	1
30	Bi-metallic MOFs possessing hierarchical synergistic effects as high performance electrocatalysts for overall water splitting at high current densities. Applied Catalysis B: Environmental, 2019, 258, 118023.	10.8	114
31	Ultrathin PdFePb nanowires: One-pot aqueous synthesis and efficient electrocatalysis for polyhydric alcohol oxidation reaction. Journal of Colloid and Interface Science, 2019, 555, 276-283.	5.0	26
32	In Situ Transformation of Prussian Blue Analogue-Derived Bimetallic Carbide Nanocubes by Water Oxidation: Applications for Energy Storage and Conversion. Chemistry - A European Journal, 2020, 26, 4052-4062.	1.7	23
33	High loading accessible active sites via designable 3D-printed metal architecture towards promoting electrocatalytic performance. Journal of Materials Chemistry A, 2019, 7, 18338-18347.	5.2	35
34	Electroreduction of carbon dioxide to formate at high current densities using tin and tin oxide gas diffusion electrodes. Journal of Applied Electrochemistry, 2019, 49, 917-928.	1.5	45
35	Polymorph nickel titanate nanofibers as bifunctional electrocatalysts towards hydrogen and oxygen evolution reactions. Dalton Transactions, 2019, 48, 12684-12698.	1.6	9
36	Double-catalytic-site engineering of nickel-based electrocatalysts by group VB metals doping coupling with in-situ cathodic activation for hydrogen evolution. Applied Catalysis B: Environmental, 2019, 258, 117984.	10.8	29
37	Organic-Inorganic Cobalt-Phosphonate-Derived Hollow Cobalt Phosphate Spherical Hybrids for Highly Efficient Oxygen Evolution. ACS Sustainable Chemistry and Engineering, 2019, 7, 13559-13568.	3.2	58

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38	An Fe-doped NiTe bulk crystal as a robust catalyst for the electrochemical oxygen evolution reaction. <i>Chemical Communications</i> , 2019, 55, 9347-9350.	2.2	61
39	Detection of Lignin Motifs with RuO <sub>2</sub> -DNA as an Active Catalyst via Surface-Enhanced Raman Scattering Studies. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 18463-18475.	3.2	18
40	In Situ Modified Nitrogen-Enriched ZIF-67 Incorporated ZIF-7 Nanofiber: An Unusual Electrocatalyst for Water Oxidation. <i>Inorganic Chemistry</i> , 2019, 58, 13826-13835.	1.9	33
41	Cu <sub>2-x</sub> Se@CuO core-shell assembly grew on copper foam for efficient oxygen evolution. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 31979-31986.	3.8	17
42	Heterolayered Ni-Fe Hydroxide/Oxide Nanostructures Generated on a Stainless-Steel Substrate for Efficient Alkaline Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 44161-44169.	4.0	59
43	Fluorine-Anion-Modulated Electron Structure of Nickel Sulfide Nanosheet Arrays for Alkaline Hydrogen Evolution. <i>ACS Energy Letters</i> , 2019, 4, 2905-2912.	8.8	159
44	Highly Stable Nanocrystal Engineered Palladium Decorated Cuprous Oxide Photocathode for Hydrogen Generation. <i>Advanced Materials Interfaces</i> , 2019, 6, 1901099.	1.9	3
45	Cobalt nitride nanoflakes supported on Ni foam as a high-performance bifunctional catalyst for hydrogen production via urea electrolysis. <i>Journal of Chemical Sciences</i> , 2019, 131, 1.	0.7	8
46	Comparison of Water Sampling between Environmental DNA Metabarcoding and Conventional Microscopic Identification: A Case Study in Gwangyang Bay, South Korea. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3272.	1.3	25
47	Electrochemically engineering defect-rich nickel-iron layered double hydroxides as a whole water splitting electrocatalyst. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 23689-23698.	3.8	14
48	Self-supported CoFe LDH/Co <sub>0.85</sub> Se nanosheet arrays as efficient electrocatalysts for the oxygen evolution reaction. <i>Catalysis Science and Technology</i> , 2019, 9, 5736-5744.	2.1	37
49	Precipitating Metal Nitrate Deposition of Amorphous Metal Oxyhydroxide Electrodes Containing Ni, Fe, and Co for Electrocatalytic Water Oxidation. <i>ACS Catalysis</i> , 2019, 9, 9650-9662.	5.5	43
50	Simple vapor-solid-reaction route for porous Cu <sub>2</sub> O nanorods with good HER catalytic activity. <i>Dalton Transactions</i> , 2019, 48, 823-832.	1.6	21
51	Electrosynthesis of copper phosphide thin films for efficient water oxidation. <i>Materials Letters</i> , 2019, 241, 243-247.	1.3	33
52	Membrane free water electrolysis under 1.23 V with Ni <sub>3</sub> Se <sub>4</sub> /Ni anode in alkali and Pt cathode in acid. <i>Applied Surface Science</i> , 2019, 478, 784-792.	3.1	34
53	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
54	Superior Oxygen Evolution Reaction Performance of Co <sub>3</sub> O <sub>4</sub> /NiCo <sub>2</sub> O <sub>4</sub> /Ni Foam Composite with Hierarchical Structure. <i>ACS Sustainable Chemistry and Engineering</i> , 0, , .	3.2	7
55	Hierarchical Iron-Doped Nickel Diselenide Hollow Spheres for Efficient Oxygen Evolution Electrocatalysis. <i>ACS Applied Energy Materials</i> , 2019, 2, 4737-4744.	2.5	33

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56	Scanning Electrochemical Cell Microscopy (SECCM) Chronopotentiometry: Development and Applications in Electroanalysis and Electrocatalysis. <i>Analytical Chemistry</i> , 2019, 91, 9229-9237.	3.2	55
57	Facile Fabrication of Highly Efficient Photoelectrocatalysts $M_xO_y@NH_2$ (Ti) for Enhanced Hydrogen Evolution Reaction. <i>ChemistrySelect</i> , 2019, 4, 6996-7002.	0.7	11
58	Coexisting Few-Layer Assemblies of NiO and $MoO_3$ Deposited on Vulcan Carbon as an Efficient and Durable Electrocatalyst for Water Oxidation. <i>ACS Applied Energy Materials</i> , 2019, 2, 4987-4998.	2.5	15
59	On the Synthesis of Morphology-Controlled Transition Metal Dichalcogenides via Chemical Vapor Deposition for Electrochemical Hydrogen Generation. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019, 13, 1900257.	1.2	18
60	Advanced $Cu_3Sn$ and Selenized $Cu_3Sn@Cu$ Foam as Electrocatalysts for Water Oxidation under Alkaline and Near-Neutral Conditions. <i>Inorganic Chemistry</i> , 2019, 58, 9490-9499.	1.9	29
61	Noble-Metal-Free Colloidal Copper Based Low Overpotential Water Oxidation Electrocatalyst. <i>ChemCatChem</i> , 2019, 11, 6022-6030.	1.8	22
62	Spinel Cobalt Titanium Binary Oxide as an All-Non-Precious Water Oxidation Electrocatalyst in Acid. <i>Inorganic Chemistry</i> , 2019, 58, 8570-8576.	1.9	55
63	Vanadium doping over $Ni_3S_2$ nanosheet array for improved overall water splitting. <i>Applied Surface Science</i> , 2019, 489, 815-823.	3.1	50
64	3D CVD graphene oxide-coated Ni foam as carbo- and electro-catalyst towards hydrogen evolution reaction in acidic solution: In situ electrochemical gas chromatography. <i>Carbon</i> , 2019, 151, 109-119.	5.4	28
65	Effect of Ion Diffusion in Cobalt Molybdenum Bimetallic Sulfide toward Electrocatalytic Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 21634-21644.	4.0	47
66	One-Pot Synthesis of Heterobimetallic Metal-Organic Frameworks (MOFs) for Multifunctional Catalysis. <i>Chemistry - A European Journal</i> , 2019, 25, 10490-10498.	1.7	99
67	Earth-abundant transition metal and metal oxide nanomaterials: Synthesis and electrochemical applications. <i>Progress in Materials Science</i> , 2019, 106, 100574.	16.0	184
68	$MnO_2$ nanowires anchored on mesoporous graphitic carbon nitride ( $MnO_2@mpg-C_3N_4$ ) as a highly efficient electrocatalyst for the oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 17995-18006.	3.8	73
69	The oxygen evolution reaction enabled by transition metal phosphide and chalcogenide pre-catalysts with dynamic changes. <i>Chemical Communications</i> , 2019, 55, 8744-8763.	2.2	246
70	Layer-by-Layer Coating of Cobalt-Based Ink for Large-Scale Fabrication of OER Electrocatalyst. <i>Energy Technology</i> , 2019, 7, 1900603.	1.8	6
71	$Co_{0.85}Se$ on three-dimensional hierarchical porous graphene-like carbon for highly effective oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 10182-10189.	3.8	19
72	A facile and controllable, deep eutectic solvent aided strategy for the synthesis of graphene encapsulated metal phosphides for enhanced electrocatalytic overall water splitting. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13455-13459.	5.2	34
73	Evaluating DNA Derived and Hydrothermally Aided Cobalt Selenide Catalysts for Electrocatalytic Water Oxidation. <i>Inorganic Chemistry</i> , 2019, 58, 6877-6884.	1.9	21

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74	Bifunctional 2D Electrocatalysts of Transition Metal Hydroxide Nanosheet Arrays for Water Splitting and Urea Electrolysis. ACS Sustainable Chemistry and Engineering, 2019, 7, 10035-10043.	3.2	184
75	Do the Evaluation Parameters Reflect Intrinsic Activity of Electrocatalysts in Electrochemical Water Splitting?. ACS Energy Letters, 2019, 4, 1260-1264.	8.8	309
76	Recent advances in transition metal-based electrocatalysts for alkaline hydrogen evolution. Journal of Materials Chemistry A, 2019, 7, 14971-15005.	5.2	501
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79	Fe <sub>3</sub> C@Co Nanoparticles Encapsulated in a Hierarchical Structure of N-Doped Carbon as a Multifunctional Electrocatalyst for ORR, OER, and HER. Advanced Functional Materials, 2019, 29, 1901949.	7.8	297
80	Recent Studies on Bifunctional Perovskite Electrocatalysts in Oxygen Evolution, Oxygen Reduction, and Hydrogen Evolution Reactions under Alkaline Electrolyte. Israel Journal of Chemistry, 2019, 59, 708-719.	1.0	12
81	Recent Progress in Bifunctional Electrocatalysts for Overall Water Splitting under Acidic Conditions. ChemElectroChem, 2019, 6, 3244-3253.	1.7	79
82	In Situ Mn-Doping-Promoted Conversion of Co(OH) <sub>2</sub> to Co <sub>3</sub> O <sub>4</sub> as an Active Electrocatalyst for Oxygen Evolution Reaction. ACS Sustainable Chemistry and Engineering, 2019, 7, 9690-9698.	3.2	36
83	Co <sub>3</sub> O <sub>4</sub> @Cu-Based Conductive Metal-Organic Framework Core-Shell Nanowire Electrocatalysts Enable Efficient Low-Overall-Potential Water Splitting. Chemistry - A European Journal, 2019, 25, 6575-6583.	1.7	64
84	Phosphorus-Rich Metal Phosphides: Direct and Tin Flux-Assisted Synthesis and Evaluation as Hydrogen Evolution Electrocatalysts. Inorganic Chemistry, 2019, 58, 5013-5024.	1.9	38
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87	Mesoporous Ultrathin Cobalt Oxides Nanosheets Grown on Carbon Cloth as a High-Performance Electrode for Oxygen Evolution Reaction. ACS Applied Energy Materials, 2019, 2, 1977-1987.	2.5	18
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89	Hierarchical Edge-Rich Nickel Phosphide Nanosheet Arrays as Efficient Electrocatalysts toward Hydrogen Evolution in Both Alkaline and Acidic Conditions. ACS Sustainable Chemistry and Engineering, 2019, 7, 7804-7811.	3.2	48
90	In-situ growth of nitrogen-doped mesoporous carbon nanostructure supported nickel metal nanoparticles for oxygen evolution reaction in an alkaline electrolyte. Electrochimica Acta, 2019, 306, 617-626.	2.6	7
91	Amorphous nickel sulfide nanosheets with embedded vanadium oxide nanocrystals on nickel foam for efficient electrochemical water oxidation. Journal of Materials Chemistry A, 2019, 7, 10534-10542.	5.2	65

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93	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
94	Ruthenium Nanoparticles for Catalytic Water Splitting. <i>ChemSusChem</i> , 2019, 12, 2493-2514.	3.6	93
95	Hydrogen production by PEM water electrolysis – A review. <i>Materials Science for Energy Technologies</i> , 2019, 2, 442-454.	1.0	708
96	Controlled synthesis of bifunctional particle-like Mo/Mn-Ni <sub>x</sub> S <sub>y</sub> /NF electrocatalyst for highly efficient overall water splitting. <i>Dalton Transactions</i> , 2019, 48, 6718-6729.	1.6	46
97	Electrochemically Driven Coordination Tuning of FeOOH Integrated on Carbon Fiber Paper for Enhanced Oxygen Evolution. <i>Small</i> , 2019, 15, e1901015.	5.2	46
98	Bottom-up MOF-intermediated synthesis of 3D hierarchical flower-like cobalt-based homobimetallic phosphide composed of ultrathin nanosheets for highly efficient oxygen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2019, 249, 147-154.	10.8	111
99	Intermetallic compounds with high hydrogen evolution reaction performance: a case study of a MCo <sub>2</sub> (M = Ti, Zr, Hf and Sc) series. <i>Chemical Communications</i> , 2019, 55, 14406-14409.	2.2	23
100	Engineering FeNi alloy nanoparticles via synergistic ultralow Pt doping and nanocarbon capsulation for efficient hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2019, 7, 24347-24355.	5.2	39
101	Cobalt tungsten oxide hydroxide hydrate (CTOHH) on DNA scaffold: an excellent bi-functional catalyst for oxygen evolution reaction (OER) and aromatic alcohol oxidation. <i>Dalton Transactions</i> , 2019, 48, 17117-17131.	1.6	25
102	Surface-assembled non-noble metal nanoscale Ni-colloidal thin-films as efficient electrocatalysts for water oxidation. <i>RSC Advances</i> , 2019, 9, 37274-37286.	1.7	16
103	Cobalt Nitride Supported on Nickel Foam as Bifunctional Catalyst Electrodes for Urea Electrolysis-Assisted Hydrogen Generation. <i>Nano</i> , 2019, 14, 1950152.	0.5	3
104	Anchoring NiTe domains with unusual composition on Pb <sub>0.95</sub> Ni <sub>0.05</sub> Te nanorod as superior lithium-ion battery anodes and oxygen evolution catalysts. <i>Materials Today Energy</i> , 2019, 11, 199-210.	2.5	14
105	Electrodeposited Copper-Cobalt-Phosphide: A Stable Bifunctional Catalyst for Both Hydrogen and Oxygen Evolution Reactions. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 3092-3100.	3.2	62
106	Colloidal synthesis of high-performance FeSe/CoSe nanocomposites for electrochemical oxygen evolution reaction. <i>Electrochimica Acta</i> , 2019, 297, 197-205.	2.6	39
107	Co <sub>9</sub> S <sub>8</sub> -Ni <sub>3</sub> S <sub>2</sub> heterointerfaced nanotubes on Ni foam as highly efficient and flexible bifunctional electrodes for water splitting. <i>Electrochimica Acta</i> , 2019, 299, 152-162.	2.6	82
108	Dispersive Single-Atom Metals Anchored on Functionalized Nanocarbons for Electrochemical Reactions. <i>Topics in Current Chemistry</i> , 2019, 377, 4.	3.0	29
109	(003)-Facet-exposed Ni <sub>3</sub> S <sub>2</sub> nanoporous thin films on nickel foil for efficient water splitting. <i>Applied Catalysis B: Environmental</i> , 2019, 243, 693-702.	10.8	129

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111	Surface reconstruction of cobalt phosphide nanosheets by electrochemical activation for enhanced hydrogen evolution in alkaline solution. <i>Chemical Science</i> , 2019, 10, 2019-2024.	3.7	163
112	Ultrasmall Ni/NiO Nanoclusters on Thiol-Functionalized and -Exfoliated Graphene Oxide Nanosheets for Durable Oxygen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2019, 2, 363-371.	2.5	74
113	Single cobalt atom anchored on N-doped graphyne for boosting the overall water splitting. <i>Applied Surface Science</i> , 2020, 502, 144155.	3.1	50
114	Multifunctional Transition Metal-Based Phosphides in Energy-Related Electrocatalysis. <i>Advanced Energy Materials</i> , 2020, 10, 1902104.	10.2	322
115	A Facile Synthesis of FeCo Nanoparticles Encapsulated in Hierarchical N-Doped Carbon Nanotube/Nanofiber Hybrids for Overall Water Splitting. <i>ChemCatChem</i> , 2020, 12, 932-943.	1.8	39
116	Morphology engineering of 3D nanostructure MMNS as bifunctional electrocatalysts towards high-efficient overall water splitting. <i>Applied Surface Science</i> , 2020, 502, 144147.	3.1	14
117	Efficient electrocatalytic proton reduction on CoP nanocrystals embedded in microporous P, N Co-doped carbon spheres with dual active sites. <i>Carbon</i> , 2020, 156, 529-537.	5.4	22
118	One pot solvothermal synthesis of Co <sub>3</sub> O <sub>4</sub> @UiO-66 and CuO@UiO-66 for improved current density towards hydrogen evolution reaction. <i>Materials Chemistry and Physics</i> , 2020, 239, 122320.	2.0	20
119	Stannites – A New Promising Class of Durable Electrocatalysts for Efficient Water Oxidation. <i>ChemCatChem</i> , 2020, 12, 1161-1168.	1.8	18
120	Metal Boride-Based Catalysts for Electrochemical Water-Splitting: A Review. <i>Advanced Functional Materials</i> , 2020, 30, 1906481.	7.8	268
121	Interface engineering in transition metal carbides for electrocatalytic hydrogen generation and nitrogen fixation. <i>Materials Horizons</i> , 2020, 7, 32-53.	6.4	61
122	Assembling amorphous (Fe-Ni)Co -OH/Ni <sub>3</sub> S <sub>2</sub> nano hybrids with S-vacancy and interfacial effects as an ultra-highly efficient electrocatalyst: Inner investigation of mechanism for alkaline water-to-hydrogen/oxygen conversion. <i>Applied Catalysis B: Environmental</i> , 2020, 263, 118338.	10.8	73
123	Three-dimensional mesoporous Ir-Ru binary oxides with improved activity and stability for water electrolysis. <i>Catalysis Today</i> , 2020, 352, 39-46.	2.2	30
124	Electrodeposition of self-supported Ni-Mo-P film on Ni foam as an affordable and high-performance electrocatalyst toward hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2020, 335, 135643.	2.6	88
125	A highly efficient electrocatalyst based on double perovskite cobaltites with immense intrinsic catalytic activity for water oxidation. <i>Chemical Communications</i> , 2020, 56, 1030-1033.	2.2	10
126	Fabrication of practical catalytic electrodes using insulating and eco-friendly substrates for overall water splitting. <i>Energy and Environmental Science</i> , 2020, 13, 102-110.	15.6	98
127	Mixed Metal Phosphide Chainmail Catalysts Confined in N-Doped Porous Carbon Nanoboxes as Highly Efficient Water-Oxidation Electrocatalysts with Ultralow Overpotentials and Tafel Slopes. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 7153-7161.	4.0	47



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128	Karst landform-featured monolithic electrode for water electrolysis in neutral media. <i>Energy and Environmental Science</i> , 2020, 13, 174-182.	15.6	109
129	Multifunctional solution blow spun NiFe@NiFe <sub>2</sub> O <sub>4</sub> composite nanofibers: Structure, magnetic properties and OER activity. <i>Journal of Physics and Chemistry of Solids</i> , 2020, 139, 109325.	1.9	34
130	Ultra-high electrocatalytic activity and durability of bimetallic Au@Ni core-shell nanoparticles supported on rGO for methanol oxidation reaction in alkaline electrolyte. <i>Journal of Alloys and Compounds</i> , 2020, 822, 153322.	2.8	18
131	Developments and Perspectives in 3d Transition-Metal-Based Electrocatalysts for Neutral and Near-Neutral Water Electrolysis. <i>Advanced Energy Materials</i> , 2020, 10, 1902666.	10.2	226
132	Vertical Nickel-Iron layered double hydroxide nanosheets grown on hills-like nickel framework for efficient water oxidation and splitting. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 3986-3994.	3.8	13
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134	Stacked Co <sub>6</sub> W <sub>6</sub> C nanocrystals anchored on N-doping carbon nanofibers with excellent electrocatalytic performance for HER in wide-range pH. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 1901-1910.	3.8	14
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