

Recent progress on earth abundant electrocatalysts for
(HER) in alkaline medium to achieve efficient water spli

Journal of Energy Chemistry

34, 111-160

DOI: [10.1016/j.jechem.2018.09.016](https://doi.org/10.1016/j.jechem.2018.09.016)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Electrodeposition of cedar leaf-like graphene Oxide@Ni@Cu@Ni foam electrode as a highly efficient and ultra-stable catalyst for hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2019, 326, 134949.	2.6	52
2	Prussian blue/ZIF-67-derived carbon layers-encapsulated FeCo nanoparticles for hydrogen and oxygen evolution reaction. <i>Journal of Electroanalytical Chemistry</i> , 2019, 853, 113557.	1.9	11
3	Endangered elements, critical raw materials and conflict minerals. <i>Science Progress</i> , 2019, 102, 304-350.	1.0	28
4	3D nanostructured NiMo catalyst electrodeposited on 316L stainless steel for hydrogen generation in industrial applications. <i>Journal of Applied Electrochemistry</i> , 2019, 49, 1227-1238.	1.5	18
5	Electrochemical exfoliation of hierarchical Co ₃ O ₄ microflowers and their conversion into CoP as high-efficiency hydrogen evolution electrocatalyst. <i>Electrochimica Acta</i> , 2019, 322, 134768.	2.6	7
6	Application of a deep eutectic solvent to prepare nanocrystalline Ni and Ni/TiO ₂ coatings as electrocatalysts for the hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 24604-24616.	3.8	53
7	In-situ monitoring of hydrogen absorption into Ni thin film electrodes during alkaline water electrolysis. <i>Electrochimica Acta</i> , 2019, 322, 134752.	2.6	3
8	Constructing Earth-abundant 3D Nanoarrays for Efficient Overall Water Splitting – A Review. <i>ChemCatChem</i> , 2019, 11, 1550-1575.	1.8	108
9	Fast sulfurization of nickel foam-supported nickel-cobalt carbonate hydroxide nanowire array at room temperature for hydrogen evolution electrocatalysis. <i>Electrochimica Acta</i> , 2019, 318, 252-261.	2.6	25
10	In-Situ Transformed Ni, S-Codoped CoO from Amorphous Co-Ni Sulfide as an Efficient Electrocatalyst for Hydrogen Evolution in Alkaline Media. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, , .	3.2	8
11	Recent advances in transition metal-based electrocatalysts for alkaline hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14971-15005.	5.2	501
12	Copper-Doped Cobalt Spinel Electrocatalysts Supported on Activated Carbon for Hydrogen Evolution Reaction. <i>Materials</i> , 2019, 12, 1302.	1.3	22
13	Ni _m Mo _n (<i>m</i> + <i>n</i> = 5) Clusters for Hydrogen Electric Reduction: Synergistic Effect of Ni and Mo on the Adsorption and OH Breaking of H ₂ O. <i>Journal of Physical Chemistry C</i> , 2019, 123, 9247-9254.	1.5	6
14	Engineering hierarchical CoSe/NiFe layered-double-hydroxide nanoarrays as high efficient bifunctional electrocatalyst for overall water splitting. <i>Journal of Power Sources</i> , 2019, 425, 138-146.	4.0	110
15	Engineering inner-porous cobalt phosphide nanowire based on controllable phosphating for efficient hydrogen evolution in both acidic and alkaline conditions. <i>Applied Surface Science</i> , 2019, 481, 1524-1531.	3.1	18
16	In-situ growth of iron/nickel phosphides hybrid on nickel foam as bifunctional electrocatalyst for overall water splitting. <i>Journal of Power Sources</i> , 2019, 424, 42-51.	4.0	56
17	Development of a novel method of NiCoP alloy coating for electrocatalytic hydrogen evolution reaction in alkaline media. <i>Electrochimica Acta</i> , 2019, 303, 67-77.	2.6	43
18	Sandwiched NiO/Mo ₂ C/RGO as Improved Electrocatalyst for Hydrogen Evolution Reaction: Solvothermal-Assisted Self-Assembly and Catalytic Mechanism. <i>ChemElectroChem</i> , 2019, 6, 5958-5966.	1.7	12

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19	Size-dependent catalytic activity of cobalt phosphides for hydrogen evolution reaction. <i>Journal of Energy Chemistry</i> , 2020, 43, 121-128.	7.1	51
20	Recent Advances in Electrocatalytic Hydrogen Evolution Using Nanoparticles. <i>Chemical Reviews</i> , 2020, 120, 851-918.	23.0	1,767
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25	Comparative study of anion exchange membranes for low-cost water electrolysis. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 26070-26079.	3.8	96
26	Defect Engineering of van der Waals Solids for Electrocatalytic Hydrogen Evolution. <i>Chemistry - an Asian Journal</i> , 2020, 15, 3682-3695.	1.7	4
27	A facile strategy to synthesize graphitic carbon-encapsulated core-shell nanocomposites derived from CO ₂ as functional materials. <i>Composites Communications</i> , 2020, 22, 100464.	3.3	12
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31	Hydrogen evolution on non-metal oxide catalysts. <i>JPhys Energy</i> , 2020, 2, 042002.	2.3	16
32	Amorphous NiFe phosphides supported on nanoarray-structured nitrogen-doped carbon paper for high-performance overall water splitting. <i>Electrochimica Acta</i> , 2020, 357, 136873.	2.6	23
33	Electrodeposition of Ni _{1-x} Ni _x -Co composite coatings on the carbon felt: Structural features and electrochemical performance. <i>Journal of Alloys and Compounds</i> , 2020, 849, 156625.	2.8	14
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36	Electrodeposition of Ni-Fe-Mn ternary nanosheets as affordable and efficient electrocatalyst for both hydrogen and oxygen evolution reactions. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 24670-24683.	3.8	23

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38	Boosting Hydrogen Evolution Reaction of Nickel Sulfides by Introducing Nonmetallic Dopants. <i>Journal of Physical Chemistry C</i> , 2020, 124, 24223-24231.	1.5	8
39	<i>In situ</i> X-ray diffraction and X-ray absorption spectroscopy of electrocatalysts for energy conversion reactions. <i>Journal of Materials Chemistry A</i> , 2020, 8, 19079-19112.	5.2	98
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45	Efficient Hydrogen Evolution Reaction on Ni ₃ S ₂ Nanorods with a P/N Bipolar Electrode Prepared by Dealloying Sulfurization of NiW Amorphous Alloys. <i>ACS Applied Energy Materials</i> , 2020, 3, 5745-5755.	2.5	7
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77	Carbon quantum dots for advanced electrocatalysis. Journal of Energy Chemistry, 2021, 55, 279-294.	7.1	175
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98	Benchmarking Phases of Ruthenium Dichalcogenides for Electrocatalysis of Hydrogen Evolution: Theoretical and Experimental Insights. <i>Small</i> , 2021, 17, e2007333.	5.2	35
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102	Highly efficient nanoporous CoBP electrocatalyst for hydrogen evolution reaction. <i>Rare Metals</i> , 2021, 40, 1031-1039.	3.6	42
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120	Direct growth of nickel-doped cobalt phosphide nanowire cluster on carbon cloth for efficient hydrogen evolution reaction. <i>Electrochemistry Communications</i> , 2021, 127, 107051.	2.3	11
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124	Amorphous Manganese – Cobalt Nanosheets as Efficient Catalysts for Hydrogen Evolution Reaction (HER). <i>Catalysis Surveys From Asia</i> , 2021, 25, 437-444.	1.0	10
125	Controlled Element Specific Nanoscale Domains by Self-Assembly for High Performance Bifunctional Alkaline Water Splitting Catalyst. <i>Advanced Functional Materials</i> , 2021, 31, 2106149.	7.8	12
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133	The in-situ construction of NiFe sulfide with nanoarray structure on nickel foam as efficient bifunctional electrocatalysts for overall water splitting. <i>Journal of Alloys and Compounds</i> , 2021, 874, 159874.	2.8	40
134	In-situ growth of CNTs encapsulating P-doped NiSe ₂ nanoparticles on carbon framework as efficient bifunctional electrocatalyst for overall water splitting. <i>Journal of Energy Chemistry</i> , 2021, 60, 111-120.	7.1	56
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138	Enhanced electrocatalysis of NiMnIn Heusler alloy films for hydrogen evolution reaction by magnetic field. <i>Journal of Alloys and Compounds</i> , 2021, 877, 160271.	2.8	23
139	Recent progress in CoP-based materials for electrochemical water splitting. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 34194-34215.	3.8	38
140	Heterostructured CoO/Co ₃ O ₄ nanowire array on Titanium mesh as efficient electrocatalysts for hydrogen evolution reaction. <i>Journal of Alloys and Compounds</i> , 2021, 881, 160603.	2.8	21
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143	Design of binder-free hierarchical Mo-Fe-Ni phosphides nanowires array anchored on carbon cloth with high electrocatalytic capability toward hydrogen evolution reaction. <i>Journal of Alloys and Compounds</i> , 2022, 891, 162064.	2.8	18
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146	Implanted cobalt ions in two zinc-based frameworks: Improved electrocatalyst for hydrogen evolution reaction. <i>Chemical Engineering Journal</i> , 2022, 427, 130952.	6.6	11
147	Current perspectives on 3D ZIFs incorporated with 1D carbon matrices as fibers <i>via</i> electrospinning processes towards electrocatalytic water splitting: a review. <i>Journal of Materials Chemistry A</i> , 2021, 9, 11961-12002.	5.2	50
148	Highly active and stable nickel-molybdenum nitride (Ni ₂ Mo ₃ N) electrocatalyst for hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2021, 9, 4945-4951.	5.2	60
149	PdSn hollow alloy nanoparticles prepared by in-situ galvanic replacement process for exclusive hydrogen evolution reaction and durable electrocatalysis. <i>Applied Catalysis A: General</i> , 2020, 599, 117575.	2.2	8
150	One-step fabrication of a self-supported Co@CoTe ₂ electrocatalyst for efficient and durable oxygen evolution reactions. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 2523-2532.	3.0	37
151	Graphene oxide-mediated scalable preparation of heterostructured MoS ₂ -MoO ₂ /graphene nanohybrids for efficient energy storage and hydrogen evolution reaction. <i>Sustainable Energy and Fuels</i> , 2021, 5, 6124-6134.	2.5	1
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157	MoS ₂ supported on Er-MOF as efficient electrocatalysts for hydrogen evolution reaction. <i>Journal of Alloys and Compounds</i> , 2022, 898, 162991.	2.8	21
158	Sustainable Oxide Electrocatalyst for Hydrogen- and Oxygen-Evolution Reactions. <i>ACS Catalysis</i> , 2021, 11, 14605-14614.	5.5	35
159	Triple Product Overall Water Splitting – An Environment Friendly and New Direction Water Splitting in Sea-Water Mimicking Electrolyte. <i>ChemistrySelect</i> , 2021, 6, 12316-12322.	0.7	4
160	Vanadium-phosphorus incorporation induced interfacial modification on cobalt catalyst and its super electrocatalysis for water splitting in alkaline media. <i>Applied Catalysis B: Environmental</i> , 2022, 304, 120985.	10.8	29
161	A newly synthesized bipyridine-containing manganese (Mn^{II}) complex immobilized on graphene oxide as active electrocatalyst for hydrogen gas production from alkaline solutions: Experimental and theoretical studies. <i>International Journal of Energy Research</i> , 2022, 46, 6577-6593.	2.2	2
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170	High coercivity cobalt carbide nanoparticles as electrocatalysts for hydrogen evolution reaction. <i>Nano Research</i> , 2022, 15, 3901-3906.	5.8	13
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