

Water splitting by electrolysis at high current densities

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Citation Report

#	ARTICLE	IF	CITATIONS
5	Construction of an efficient hole migration pathway on hematite for efficient photoelectrochemical water oxidation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 23478-23485.	5.2	73
6	Rationality in the new oxygen evolution catalyst development. <i>Current Opinion in Electrochemistry</i> , 2018, 12, 218-224.	2.5	24
7	Recent developments in earth-abundant and non-noble electrocatalysts for water electrolysis. <i>Materials Today Physics</i> , 2018, 7, 121-138.	2.9	203
8	Overall water splitting by graphdiyne-exfoliated and -sandwiched layered double-hydroxide nanosheet arrays. <i>Nature Communications</i> , 2018, 9, 5309.	5.8	287
9	Air-stable phosphorus-doped molybdenum nitride for enhanced electrocatalytic hydrogen evolution. <i>Communications Chemistry</i> , 2018, 1, .	2.0	36
10	Bifunctional hydrogen evolution and oxygen evolution catalysis using CoP-embedded N-doped nanoporous carbon synthesized via TEOS-assisted method. <i>Energy</i> , 2018, 165, 537-548.	4.5	19
11	NiFe Oxide Nanocatalysts Grown on Carbonized Algal Cells for Enhanced Oxygen Evolution Reaction. <i>Journal of the Electrochemical Society</i> , 2018, 165, J3157-J3165.	1.3	2
12	Simultaneous SO ₂ removal and CO ₂ reduction in a nano-BiVO ₄ Cu-In nanoalloy photoelectrochemical cell. <i>Chemical Engineering Journal</i> , 2019, 355, 11-21.	6.6	41
13	New Way to Synthesize Robust and Porous Ni _{1-x} Fe _x Layered Double Hydroxide for Efficient Electrocatalytic Oxygen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 32909-32916.	4.0	16
14	Synthesis and identifying the active site of Cu ₂ Se@CoSe nano-composite for enhanced electrocatalytic oxygen evolution. <i>Electrochimica Acta</i> , 2019, 320, 134589.	2.6	21
15	Upscaling high activity oxygen evolution catalysts based on CoFe ₂ O ₄ nanoparticles supported on nickel foam for power-to-gas electrochemical conversion with energy efficiencies above 80%. <i>Applied Catalysis B: Environmental</i> , 2019, 259, 118055.	10.8	35
16	MoS ₂ @Co ₃ S ₄ hollow polyhedrons derived from ZIF-67 towards hydrogen evolution reaction and hydrodesulfurization. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 24246-24255.	3.8	22
17	Morphological and Electronic Tuning of Ni ₂ P through Iron Doping toward Highly Efficient Water Splitting. <i>ACS Catalysis</i> , 2019, 9, 8882-8892.	5.5	227
18	Metal boride better than Pt: HCP Pd ₂ B as a superactive hydrogen evolution reaction catalyst. <i>Energy and Environmental Science</i> , 2019, 12, 3099-3105.	15.6	93
19	Copper-N-SiO ₂ nanoparticles catalyst for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 22926-22935.	3.8	4
20	Enhanced electrocatalytic HER performance of non-noble metal nickel by introduction of divanadium trioxide. <i>Electrochimica Acta</i> , 2019, 320, 134535.	2.6	18
21	Improving electrocatalytic activity of iridium for hydrogen evolution at high current densities above 1000 mA cm ⁻² . <i>Applied Catalysis B: Environmental</i> , 2019, 258, 117965.	10.8	46
22	Powering the Hydrogen Economy from Waste Heat: A Review of Heat-to-Hydrogen Concepts. <i>ChemSusChem</i> , 2019, 12, 3882-3895.	3.6	36

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23	Graphdiyne-engineered heterostructures for efficient overall water-splitting. <i>Nano Energy</i> , 2019, 64, 103928.	8.2	43
24	NiFe (sulfur)oxyhydroxide porous nanoclusters/Ni foam composite electrode drives a large-current-density oxygen evolution reaction with an ultra-low overpotential. <i>Journal of Materials Chemistry A</i> , 2019, 7, 18816-18822.	5.2	30
25	Ce-doped CoS ₂ pyrite with weakened O ₂ adsorption suppresses catalyst leaching and stabilizes electrocatalytic H ₂ evolution. <i>Journal of Materials Chemistry A</i> , 2019, 7, 17775-17781.	5.2	35
26	A hierarchically porous and hydrophilic 3D nickel-iron/MXene electrode for accelerating oxygen and hydrogen evolution at high current densities. <i>Nano Energy</i> , 2019, 63, 103880.	8.2	275
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28	Non-noble metal-nitride based electrocatalysts for high-performance alkaline seawater electrolysis. <i>Nature Communications</i> , 2019, 10, 5106.	5.8	742
29	The Synergetic Effect of Ni and Fe Bi-metal Single Atom Catalysts on Graphene for Highly Efficient Oxygen Evolution Reaction. <i>Frontiers in Materials</i> , 2019, 6, .	1.2	20
30	Morphology enhancement of SiO ₂ aerogel films grown on Si substrate using dense SiO ₂ buffer layer. <i>Rare Metals</i> , 2019, , 1.	3.6	1
31	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
32	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
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36	One-step construction of core/shell nanoarrays with a holey shell and exposed interfaces for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2019, 7, 1196-1205.	5.2	42
37	Constructing Earth-abundant 3D Nanoarrays for Efficient Overall Water Splitting – A Review. <i>ChemCatChem</i> , 2019, 11, 1550-1575.	1.8	108
38	Polydopamine-assisted construction of cobalt phosphide encapsulated in N-doped carbon porous polyhedrons for enhanced overall water splitting. <i>Carbon</i> , 2019, 145, 694-700.	5.4	82
39	Kinetics and mechanisms of catalytic water oxidation. <i>Dalton Transactions</i> , 2019, 48, 779-798.	1.6	42
40	Enhanced surface wettability and innate activity of an iron borate catalyst for efficient oxygen evolution and gas bubble detachment. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15252-15261.	5.2	52

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42	Laser-Assisted Doping and Architecture Engineering of Fe ₃ O ₄ Nanoparticles for Highly Enhanced Oxygen Evolution Reaction. ChemSusChem, 2019, 12, 3562-3570.	3.6	19
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48	Unique nanosheet-nanowire structured CoMnFe layered triple hydroxide arrays as self-supporting electrodes for a high-efficiency oxygen evolution reaction. Journal of Materials Chemistry A, 2019, 7, 13130-13141.	5.2	67
49	Influence of Electrochemical Aging on Bead-Blasted Nickel Electrodes for the Oxygen Evolution Reaction. ACS Applied Energy Materials, 2019, 2, 3166-3178.	2.5	5
50	Stepwise Electrochemical Construction of FeOOH/Ni(OH) ₂ on Ni Foam for Enhanced Electrocatalytic Oxygen Evolution. ACS Applied Energy Materials, 2019, 2, 3927-3935.	2.5	87
51	Enhancing the Performance of Ni-Mo Alkaline Hydrogen Evolution Electrocatalysts with Carbon Supports. ACS Applied Energy Materials, 2019, 2, 2524-2533.	2.5	43
52	Ultrafine Metallic Nickel Domains and Reduced Molybdenum States Improve Oxygen Evolution Reaction of NiFeMo Electrocatalysts. Small, 2019, 15, e1804764.	5.2	35
53	NiFe Alloy Nanoparticles with hcp Crystal Structure Stimulate Superior Oxygen Evolution Reaction Electrocatalytic Activity. Angewandte Chemie - International Edition, 2019, 58, 6099-6103.	7.2	267
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55	Hierarchical tri-functional electrocatalysts derived from bimetallic-imidazolate framework for overall water splitting and rechargeable zinc-air batteries. Journal of Materials Chemistry A, 2019, 7, 8641-8652.	5.2	41
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60	Surface modification of porous g-C ₃ N ₄ materials using a waste product for enhanced photocatalytic performance under visible light. <i>Green Chemistry</i> , 2019, 21, 5934-5944.	4.6	31
61	Activating and optimizing the activity of NiCoP nanosheets for electrocatalytic alkaline water splitting through the V doping effect enhanced by P vacancies. <i>Journal of Materials Chemistry A</i> , 2019, 7, 24486-24492.	5.2	227
62	Heading to Distributed Electrocatalytic Conversion of Small Abundant Molecules into Fuels, Chemicals, and Fertilizers. <i>Joule</i> , 2019, 3, 2602-2621.	11.7	86
63	Au@Co ₂ P core/shell nanoparticles as a nano-electrocatalyst for enhancing the oxygen evolution reaction. <i>RSC Advances</i> , 2019, 9, 40811-40818.	1.7	7
64	Large-Scale, Low-Cost, and High-Efficiency Water-Splitting System for Clean H ₂ Generation. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 3971-3977.	4.0	46
65	Noble-Metal-Free Electrocatalysts for Oxygen Evolution. <i>Small</i> , 2019, 15, e1804201.	5.2	388
66	A practical-oriented NiFe-based water-oxidation catalyst enabled by ambient redox and hydrolysis co-precipitation strategy. <i>Applied Catalysis B: Environmental</i> , 2019, 244, 844-852.	10.8	125
67	In-Situ Grown, Passivator-Modulated Anodization Derived Synergistically Well-Mixed Ni-Fe Oxides from Ni Foam as High-Performance Oxygen Evolution Reaction Electrocatalyst. <i>ACS Applied Energy Materials</i> , 2019, 2, 743-753.	2.5	34
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69	3D porous network heterostructure NiCe@NiFe electrocatalyst for efficient oxygen evolution reaction at large current densities. <i>Applied Catalysis B: Environmental</i> , 2020, 260, 118199.	10.8	100
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78	Insight into the Boosted Electrocatalytic Oxygen Evolution Performance of Highly Hydrophilic Nickel-Iron Hydroxide. <i>ACS Applied Energy Materials</i> , 2020, 3, 822-830.	2.5	37
79	A review on NiFe-based electrocatalysts for efficient alkaline oxygen evolution reaction. <i>Journal of Power Sources</i> , 2020, 448, 227375.	4.0	217
80	Stabilizing atomic Pt with trapped interstitial F in alloyed PtCo nanosheets for high-performance zinc-air batteries. <i>Energy and Environmental Science</i> , 2020, 13, 884-895.	15.6	99
81	Bifunctional CdS@Co ₉ S ₈ /Ni ₃ S ₂ catalyst for efficient electrocatalytic and photo-assisted electrocatalytic overall water splitting. <i>Journal of Materials Chemistry A</i> , 2020, 8, 3083-3096.	5.2	78
82	Hydrolysis assisted in-situ growth of 3D hierarchical FeS/NiS/nickel foam electrode for overall water splitting. <i>Electrochimica Acta</i> , 2020, 332, 135534.	2.6	44
83	Rapid growth of amorphous cobalt-iron oxyhydroxide nanosheet arrays onto iron foam: Highly efficient and low-cost catalysts for oxygen evolution. <i>Journal of Electroanalytical Chemistry</i> , 2020, 856, 113621.	1.9	13
84	Carbon dioxide mitigation using renewable power. <i>Current Opinion in Chemical Engineering</i> , 2020, 29, 51-58.	3.8	6
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89	Composition-balanced trimetallic MOFs as ultra-efficient electrocatalysts for oxygen evolution reaction at high current densities. <i>Applied Catalysis B: Environmental</i> , 2020, 279, 119375.	10.8	102
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101	An electrochemical neutralization energy-assisted membrane-less microfluidic reactor for water electrolysis. <i>Sustainable Energy and Fuels</i> , 2020, 4, 6234-6244.	2.5	19
102	A diethyl methyl ammonium triflate based protic ionic liquid polymer membrane for intermediate temperature water electrolysis. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 28303-28312.	3.8	5
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114	Ultra-thin N-doped-graphene encapsulated Ni nanoparticles coupled with MoO ₂ nanosheets for highly efficient water splitting at large current density. <i>Journal of Materials Chemistry A</i> , 2020, 8, 14545-14554.	5.2	110
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119	A 3d-printed composite electrode for sustained electrocatalytic oxygen evolution. <i>Chemical Communications</i> , 2020, 56, 8476-8479.	2.2	7
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121	Self-supported phosphorus-doped CoMoO ₄ rod bundles for efficient hydrogen evolution. <i>Journal of Materials Science</i> , 2020, 55, 6502-6512.	1.7	18
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130	Outstanding oxygen evolution reaction performance of nickel iron selenide/stainless steel mat for water electrolysis. <i>Materials Today Physics</i> , 2020, 13, 100216.	2.9	37

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131	Recent advances on metal alkoxide-based electrocatalysts for water splitting. <i>Journal of Materials Chemistry A</i> , 2020, 8, 10130-10149.	5.2	43
132	Water splitting with screw pitched cylindrical electrode and Fe(OH) ₂ catalyst under 1.4 V. <i>Renewable Energy</i> , 2021, 165, 525-532.	4.3	5
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134	Tuning the electronic structure of the earth-abundant electrocatalysts for oxygen evolution reaction (OER) to achieve efficient alkaline water splitting – A review. <i>Journal of Energy Chemistry</i> , 2021, 56, 299-342.	7.1	148
135	Fe induced nanostructure reorganization and electronic structure modulation over CoNi (oxy)hydroxide nanorod arrays for boosting oxygen evolution reaction. <i>Chemical Engineering Journal</i> , 2021, 403, 126304.	6.6	75
136	Boosting the electrocatalytic HER performance of Ni ₃ N-V ₂ O ₃ via the interface coupling effect. <i>Applied Catalysis B: Environmental</i> , 2021, 283, 119590.	10.8	84
137	In-situ construction of lattice-matching NiP ₂ /NiSe ₂ heterointerfaces with electron redistribution for boosting overall water splitting. <i>Applied Catalysis B: Environmental</i> , 2021, 282, 119584.	10.8	171
138	Ni-based layered double hydroxide catalysts for oxygen evolution reaction. <i>Materials Today Physics</i> , 2021, 16, 100292.	2.9	108
139	Energy Transfer-Induced Photoelectrochemical Improvement from Porous Zeolitic Imidazolate Framework-Decorated BiVO ₄ Photoelectrodes. <i>Small Methods</i> , 2021, 5, e2000753.	4.6	14
140	Synthesis of ultrathin porous C ₃ N ₄ -modified Co ₃ O ₄ nanosheets for enhanced oxygen evolution reaction. <i>Electrochimica Acta</i> , 2021, 367, 137537.	2.6	13
141	Transition-Metal Carbides as Hydrogen Evolution Reduction Electrocatalysts: Synthetic Methods and Optimization Strategies. <i>Chemistry - A European Journal</i> , 2021, 27, 5074-5090.	1.7	41
142	Transforming Damage into Benefit: Corrosion Engineering Enabled Electrocatalysts for Water Splitting. <i>Advanced Functional Materials</i> , 2021, 31, 2009032.	7.8	70
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