

Recent developments of carbon-based electrocatalysts

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Citation Report

#	ARTICLE	IF	CITATIONS
2	The Role of Transition Metal and Nitrogen in Metal-N-C Composites for Hydrogen Evolution Reaction at Universal pHs. <i>Journal of Physical Chemistry C</i> , 2016, 120, 29047-29053.	1.5	69
3	Metallic Ni ₃ N nanosheets with exposed active surface sites for efficient hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2016, 4, 17363-17369.	5.2	233
4	Mo ₂ C Nanoparticles Dispersed on Hierarchical Carbon Microflowers for Efficient Electrocatalytic Hydrogen Evolution. <i>ACS Nano</i> , 2016, 10, 11337-11343.	7.3	483
5	Enhanced charge separation and transfer through Fe ₂ O ₃ /ITO nanowire arrays wrapped with reduced graphene oxide for water-splitting. <i>Nano Energy</i> , 2016, 30, 892-899.	8.2	71
6	Synthesis of 1T-MoSe ₂ ultrathin nanosheets with an expanded interlayer spacing of 1.17 nm for efficient hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2016, 4, 14949-14953.	5.2	190
7	Solar to Chemical Energy Conversion. <i>Lecture Notes in Energy</i> , 2016, , .	0.2	19
8	Electrodeposited MoS _x films assisted by liquid crystal template with ultrahigh electrocatalytic activity for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 5132-5138.	3.8	78
9	Facile synthesis of pyrite-type binary nickel iron diselenides as efficient electrocatalyst for oxygen evolution reaction. <i>Applied Surface Science</i> , 2017, 401, 17-24.	3.1	63
10	A novel 2D/2D carbonized poly-(furfural alcohol)/g-C ₃ N ₄ nanocomposites with enhanced charge carrier separation for photocatalytic H ₂ evolution. <i>Carbon</i> , 2017, 115, 486-492.	5.4	54
11	Cracked monolayer 1T MoS ₂ with abundant active sites for enhanced electrocatalytic hydrogen evolution. <i>Catalysis Science and Technology</i> , 2017, 7, 718-724.	2.1	83
12	Oxidized carbon fiber supported vertical WS ₂ nanosheets arrays as efficient 3 D nanostructure electrocatalysts for hydrogen evolution reaction. <i>Applied Surface Science</i> , 2017, 402, 120-128.	3.1	68
13	Rh-Ag-Si ternary composites: highly active hydrogen evolution electrocatalysts over Pt-Ag-Si. <i>Journal of Materials Chemistry A</i> , 2017, 5, 1623-1628.	5.2	28
14	Non-Noble Metal-based Carbon Composites in Hydrogen Evolution Reaction: Fundamentals to Applications. <i>Advanced Materials</i> , 2017, 29, 1605838.	11.1	1,199
15	Regulated Synthesis of Mo Sheets and Their Derivative MoX Sheets (X: P, S, or C) as Efficient Electrocatalysts for Hydrogen Evolution Reactions. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 8041-8046.	4.0	43
16	MoS ₂ -Ni ₃ S ₂ Heteronanorods as Efficient and Stable Bifunctional Electrocatalysts for Overall Water Splitting. <i>ACS Catalysis</i> , 2017, 7, 2357-2366.	5.5	963
17	Dominating Role of Ni ⁰ on the Interface of Ni/NiO for Enhanced Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 7139-7147.	4.0	206
18	Boron-Dependency of Molybdenum Boride Electrocatalysts for the Hydrogen Evolution Reaction. <i>Angewandte Chemie</i> , 2017, 129, 5667-5670.	1.6	50
19	Boron-Dependency of Molybdenum Boride Electrocatalysts for the Hydrogen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5575-5578.	7.2	259

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20	Recent Advances in Atomic Metal Doping of Carbon-based Nanomaterials for Energy Conversion. <i>Small</i> , 2017, 13, 1700191.	5.2	290
21	Design and synthesis of integrally structured Ni ₃ N nanosheets/carbon microfibers/Ni ₃ N nanosheets for efficient full water splitting catalysis. <i>Journal of Materials Chemistry A</i> , 2017, 5, 9377-9390.	5.2	123
22	Effect of Magnetic Field on HER of Water Electrolysis on Ni-W Alloy. <i>Electrocatalysis</i> , 2017, 8, 375-382.	1.5	73
23	Ultrafine Metal Nanoparticles/N-Doped Porous Carbon Hybrids Coated on Carbon Fibers as Flexible and Binder-free Water Splitting Catalysts. <i>Advanced Energy Materials</i> , 2017, 7, 1700220.	10.2	156
24	Growth of iron diselenide nanorods on graphene oxide nanosheets as advanced electrocatalyst for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 13020-13030.	3.8	91
25	Two-Dimensional Cobalt/N-Doped Carbon Hybrid Structure Derived from Metal-Organic Frameworks as Efficient Electrocatalysts for Hydrogen Evolution. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 5646-5650.	3.2	50
26	Coordination polymer derived cobalt embedded in nitrogen-doped carbon nanotubes for efficient electrocatalysis of oxygen evolution reaction. <i>Journal of Solid State Chemistry</i> , 2017, 253, 227-230.	1.4	24
27	Electrochemical deposition of Pt on carbon fiber cloth utilizing Pt mesh counter electrode during hydrogen evolution reaction for electrocatalytic hydrogenation reduction of p-nitrophenol. <i>New Journal of Chemistry</i> , 2017, 41, 7012-7019.	1.4	16
28	Novel porous tungsten carbide hybrid nanowires on carbon cloth for high-performance hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2017, 5, 13196-13203.	5.2	79
29	A 2D free-standing film-inspired electrocatalyst for highly efficient hydrogen production. <i>Journal of Materials Chemistry A</i> , 2017, 5, 12027-12033.	5.2	27
30	Active sites on graphene-based materials as metal-free catalysts. <i>Chemical Society Reviews</i> , 2017, 46, 4501-4529.	18.7	273
31	Nickel phosphide nanoparticles decorated nitrogen and phosphorus co-doped porous carbon as efficient hybrid catalyst for hydrogen evolution. <i>Applied Surface Science</i> , 2017, 422, 828-837.	3.1	37
32	One-step synthesis of CdS nanoparticles/MoS ₂ nanosheets heterostructure on porous molybdenum sheet for enhanced photocatalytic H ₂ evolution. <i>Applied Catalysis B: Environmental</i> , 2017, 210, 290-296.	10.8	192
33	Platinum Group Metal-free Catalysts for Hydrogen Evolution Reaction in Microbial Electrolysis Cells. <i>Chemical Record</i> , 2017, 17, 641-652.	2.9	36
34	Review of recent trends in photoelectrocatalytic conversion of solar energy to electricity and hydrogen. <i>Applied Catalysis B: Environmental</i> , 2017, 210, 235-254.	10.8	359
35	Electrospinning Hetero-Nanofibers of Fe ₃ C-Mo ₂ C/Nitrogen-Doped Carbon as Efficient Electrocatalysts for Hydrogen Evolution. <i>ChemSusChem</i> , 2017, 10, 2597-2604.	3.6	100
36	CoP nanorods decorated biomass derived N, P co-doped carbon flakes as an efficient hybrid catalyst for electrochemical hydrogen evolution. <i>Electrochimica Acta</i> , 2017, 232, 561-569.	2.6	68
37	Mesoporous nitrogen, sulfur co-doped carbon dots/CoS hybrid as an efficient electrocatalyst for hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2017, 5, 2717-2723.	5.2	126

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38	A newly synthesized single crystal zinc complex as molecular electrocatalyst for efficient hydrogen generation from neutral aqueous solutions. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 25980-25995.	3.8	11
39	Two-dimensional ultrathin arrays of CoP: Electronic modulation toward high performance overall water splitting. <i>Nano Energy</i> , 2017, 41, 583-590.	8.2	207
40	Significantly enhanced electrocatalytic properties of three-dimensional graphene foam via Ar plasma pretreatment and N, S co-doping. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 27004-27012.	3.8	26
41	Carbon-Based Electrocatalysts for Hydrogen and Oxygen Evolution Reactions. <i>ACS Catalysis</i> , 2017, 7, 7855-7865.	5.5	406
42	Powerful synergy: efficient Pt@Au@Si nanocomposites as state-of-the-art catalysts for electrochemical hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2017, 5, 21903-21908.	5.2	19
43	Hierarchically interconnected nitrogen-doped carbon nanosheets for an efficient hydrogen evolution reaction. <i>Nanoscale</i> , 2017, 9, 16342-16348.	2.8	33
44	Arrays of ZnSe/MoSe ₂ Nanotubes with Electronic Modulation as Efficient Electrocatalysts for Hydrogen Evolution Reaction. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700948.	1.9	39
45	Hierarchically three-level Ni ₃ (VO ₄) ₂ @NiCo ₂ O ₄ nanostructure based on nickel foam towards highly efficient alkaline hydrogen evolution. <i>Electrochimica Acta</i> , 2017, 256, 100-109.	2.6	45
46	Molybdenum carbide on hierarchical porous carbon synthesized from Cu-MoO ₂ as efficient electrocatalysts for electrochemical hydrogen generation. <i>Nano Energy</i> , 2017, 41, 749-757.	8.2	103
47	Coupling Ag-doping and rich oxygen vacancies in mesoporous NiCoO nanorods supported on nickel foam for highly efficient oxygen evolution. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 1783-1790.	3.0	34
48	Vertically Aligned MoS ₂ /Mo ₂ C hybrid Nanosheets Grown on Carbon Paper for Efficient Electrocatalytic Hydrogen Evolution. <i>ACS Catalysis</i> , 2017, 7, 7312-7318.	5.5	181
49	Mo ₂ C@NC@MoS _x porous nanospheres with sandwich shell based on MoO ₄ ²⁻ -polymer precursor for efficient hydrogen evolution in both acidic and alkaline media. <i>Carbon</i> , 2017, 124, 555-564.	5.4	57
50	A Clean and Facile Synthesis Strategy of MoS ₂ Nanosheets Grown on Multi-Wall CNTs for Enhanced Hydrogen Evolution Reaction Performance. <i>Scientific Reports</i> , 2017, 7, 8825.	1.6	53
51	Bifunctional metal phosphide FeMnP films from single source metal organic chemical vapor deposition for efficient overall water splitting. <i>Nano Energy</i> , 2017, 39, 444-453.	8.2	117
52	Time-Dependent Surface Structure Evolution of NiMo Films Electrodeposited Under Super Gravity Field as Electrocatalyst for Hydrogen Evolution Reaction. <i>Journal of Physical Chemistry C</i> , 2017, 121, 16792-16802.	1.5	20
53	Porous metal-organic framework Cu ₃ (BTC) ₂ as catalyst used in air-cathode for high performance of microbial fuel cell. <i>Bioresource Technology</i> , 2017, 244, 206-212.	4.8	56
54	Hollow bimetallic cobalt-based selenide polyhedrons derived from metal-organic framework: an efficient bifunctional electrocatalyst for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2017, 5, 17982-17989.	5.2	139
55	Boosting Electrocatalytic Activity of Binary Ag-Fe-doped Co ₂ P Nanospheres as Bifunctional Electrocatalysts for Overall Water Splitting. <i>Electrochimica Acta</i> , 2017, 249, 16-25.	2.6	23

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56	Room-Temperature Wet Chemical Synthesis of Au NPs/TiH ₂ /Nanocarved Ti Self-Supported Electrocatalysts for Highly Efficient H ₂ Generation. ACS Applied Materials & Interfaces, 2017, 9, 30115-30126.	4.0	7
57	Graphite oxide and molybdenum disulfide composite for hydrogen evolution reaction. Chemical Physics Letters, 2017, 685, 451-456.	1.2	26
58	Enhancement of hydrogen evolution activities of low-cost transition metal electrocatalysts in near-neutral strongly buffered aerobic media. Electrochemistry Communications, 2017, 83, 6-10.	2.3	20
59	Thiomolybdate [Mo ₃ S ₁₃] ²⁻ Nanoclusters Anchored on Reduced Graphene Oxide-Carbon Nanotube Aerogels for Efficient Electrocatalytic Hydrogen Evolution. ACS Sustainable Chemistry and Engineering, 2017, 5, 8908-8917.	3.2	42
60	Ultrathin N-Doped Mo ₂ C Nanosheets with Exposed Active Sites as Efficient Electrocatalyst for Hydrogen Evolution Reactions. ACS Nano, 2017, 11, 12509-12518.	7.3	350
61	Interface Engineering of Ni ₃ N@Fe ₃ N Heterostructure Supported on Carbon Fiber for Enhanced Water Oxidation. Industrial & Engineering Chemistry Research, 2017, 56, 14245-14251.	1.8	35
62	N,B-codoped defect-rich graphitic carbon nanocages as high performance multifunctional electrocatalysts. Nano Energy, 2017, 42, 334-340.	8.2	238
63	Transition-Metal Phosphide-Carbon Nanosheet Composites Derived from Two-Dimensional Metal-Organic Frameworks for Highly Efficient Electrocatalytic Water-Splitting. ACS Applied Materials & Interfaces, 2017, 9, 40171-40179.	4.0	83
64	Cu@C nanoporous composites containing little copper oxides derived from dimethyl imidazole modified MOF199 as electrocatalysts for hydrogen evolution reaction. Applied Surface Science, 2017, 425, 663-673.	3.1	17
65	Nickel nanoparticles partially embedded into carbon fiber cloth via metal-mediated pitting process as flexible and efficient electrodes for hydrogen evolution reactions. Carbon, 2017, 122, 710-717.	5.4	61
66	Arrays of ZnO/MoS ₂ nanocables and MoS ₂ nanotubes with phase engineering for bifunctional photoelectrochemical and electrochemical water splitting. Chemical Engineering Journal, 2017, 328, 474-483.	6.6	103
67	Electrocatalytic Hydrogen Evolution Reaction of Metal Organic Frameworks decorated with poly (3-aminobenzoic acid). Electrochimica Acta, 2017, 246, 1174-1182.	2.6	27
68	Template Free Preparation of Heteroatoms Doped Carbon Spheres with Trace Fe for Efficient Oxygen Reduction Reaction and Supercapacitor. Advanced Energy Materials, 2017, 7, 1602002.	10.2	160
69	Effects of Growth Temperature on Electrocatalytic Properties of Three-dimensional Sulfur-doped Graphene Foam. IOP Conference Series: Materials Science and Engineering, 2017, 275, 012003.	0.3	0
70	General aspects in the use of graphenes in catalysis. Materials Horizons, 2018, 5, 363-378.	6.4	49
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72	Defect engineering of two-dimensional materials for efficient electrocatalysis. Journal of Materiomics, 2018, 4, 95-107.	2.8	79
73	“Ethanol-water exchange”-nanobubbles templated hierarchical hollow ² -Mo ₂ C/N-doped carbon composite nanospheres as an efficient hydrogen evolution electrocatalyst. Journal of Materials Chemistry A, 2018, 6, 6054-6064.	5.2	39

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74	Engineering Molybdenum Diselenide and Its Reduced Graphene Oxide Hybrids for Efficient Electrocatalytic Hydrogen Evolution. ACS Applied Nano Materials, 2018, 1, 2143-2152.	2.4	22
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76	Effects of Catalyst Phase on the Hydrogen Evolution Reaction of Water Splitting: Preparation of Phase-Pure Films of FeP, Fe ₂ P, and Fe ₃ P and Their Relative Catalytic Activities. Chemistry of Materials, 2018, 30, 3588-3598.	3.2	123
77	Nitrogen, Fluorine, and Boron Ternary Doped Carbon Fibers as Cathode Electrocatalysts for Zinc-Air Batteries. Small, 2018, 14, e1800737.	5.2	159
78	MoP nanoparticles with a P-rich outermost atomic layer embedded in N-doped porous carbon nanofibers: Self-supported electrodes for efficient hydrogen generation. Nano Research, 2018, 11, 4728-4734.	5.8	59
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82	NiCoSe _{2-x} /N-doped C mushroom-like core/shell nanorods on N-doped carbon fiber for efficiently electrocatalyzed overall water splitting. Electrochimica Acta, 2018, 272, 161-168.	2.6	34
83	2D/2D Heterojunction of Ultrathin MXene/Bi ₂ WO ₆ Nanosheets for Improved Photocatalytic CO ₂ Reduction. Advanced Functional Materials, 2018, 28, 1800136.	7.8	1,157
84	Polyvinyl alcohol protected Mo ₂ C/Mo ₂ N multicomponent electrocatalysts with controlled morphology for hydrogen evolution reaction in acid and alkaline medium. Electrochimica Acta, 2018, 273, 239-247.	2.6	44
85	Toward High-Performance and Low-Cost Hydrogen Evolution Reaction Electrocatalysts: Nanostructuring Cobalt Phosphide (CoP) Particles on Carbon Fiber Paper. ACS Applied Materials & Interfaces, 2018, 10, 14777-14785.	4.0	98
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87	CuAg@Ag Core-Shell Nanostructure Encapsulated by N-Doped Graphene as a High-Performance Catalyst for Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2018, 10, 4672-4681.	4.0	71
88	Interface Engineering of Anchored Ultrathin TiO ₂ /MoS ₂ Heterolayers for Highly-Efficient Electrochemical Hydrogen Production. ACS Applied Materials & Interfaces, 2018, 10, 6084-6089.	4.0	47
89	Dominating Role of Aligned MoS ₂ /Ni ₃ S ₂ Nanoarrays Supported on Three-Dimensional Ni Foam with Hydrophilic Interface for Highly Enhanced Hydrogen Evolution Reaction. ACS Applied Materials & Interfaces, 2018, 10, 1752-1760.	4.0	175
90	Highly dispersed of Ni _{0.85} Se nanoparticles on nitrogen-doped graphene oxide as efficient and durable electrocatalyst for hydrogen evolution reaction. Electrochimica Acta, 2018, 262, 107-114.	2.6	39
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92	Efficient and stable electrocatalyst for hydrogen evolution reaction prepared by hybrid technique in surface engineering: Electrochemical and magnetron sputtering methods. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 757-771.	3.8	7
93	Iron oxide embedded titania nanowires “ An active and stable electrocatalyst for oxygen evolution in acidic media. <i>Nano Energy</i> , 2018, 45, 118-126.	8.2	95
94	Metallic Intermediate Phase Inducing Morphological Transformation in Thermal Nitridation: Ni ₃ FeN-Based Three-Dimensional Hierarchical Electrocatalyst for Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 3699-3706.	4.0	96
95	Direct Z-scheme heterojunction nanocomposite for the enhanced solar H ₂ production. <i>Applied Catalysis A: General</i> , 2018, 553, 43-51.	2.2	33
96	Bioinspired Electro“Organocatalytic Material Efficient for Hydrogen Production. <i>Chemistry - A European Journal</i> , 2018, 24, 3305-3313.	1.7	6
97	KOH activated N-doped novel carbon aerogel as efficient metal-free oxygen reduction catalyst for microbial fuel cells. <i>Chemical Engineering Journal</i> , 2018, 348, 775-785.	6.6	91
98	NiMn layered double hydroxide nanosheets/NiCo ₂ O ₄ nanowires with surface rich high valence state metal oxide as an efficient electrocatalyst for oxygen evolution reaction. <i>Journal of Power Sources</i> , 2018, 392, 23-32.	4.0	123
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100	N-doped hierarchical porous carbon anchored tiny Pd NPs: A mild and efficient quinolines selective hydrogenation catalyst. <i>Molecular Catalysis</i> , 2018, 452, 145-153.	1.0	21
101	One-dimensional hierarchical MoO ₂ “MoS _x hybrids as highly active and durable catalysts in the hydrogen evolution reaction. <i>Dalton Transactions</i> , 2018, 47, 6041-6048.	1.6	22
102	Palladium “ silicon nanocomposites as a stable electrocatalyst for hydrogen evolution reaction. <i>Journal of Colloid and Interface Science</i> , 2018, 522, 242-248.	5.0	25
103	Nanostructured metal-N-C electrocatalysts for CO ₂ reduction and hydrogen evolution reactions. <i>Applied Catalysis B: Environmental</i> , 2018, 232, 512-520.	10.8	48
104	Triple Ni-Co-Mo metal sulfides with one-dimensional and hierarchical nanostructures towards highly efficient hydrogen evolution reaction. <i>Journal of Catalysis</i> , 2018, 361, 204-213.	3.1	115
105	High-temperature-treated multiwall carbon nanotubes for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 6526-6531.	3.8	21
106	Optimized expanding of interlayer distance for molybdenum disulfide towards enhanced hydrogen evolution reaction. <i>Applied Surface Science</i> , 2018, 428, 948-953.	3.1	10
107	Metal“organic frameworks for electrocatalysis. <i>Coordination Chemistry Reviews</i> , 2018, 373, 22-48.	9.5	360
108	Mo ₂ C-Based Electrocatalyst with Biomass-Derived Sulfur and Nitrogen Co-Doped Carbon as a Matrix for Hydrogen Evolution and Organic Pollutant Removal. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 1446-1455.	3.2	70
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110	Hydrogen Evolution Activity of Ruthenium Phosphides Encapsulated in Nitrogen- and Phosphorous-Codoped Hollow Carbon Nanospheres. <i>ChemSusChem</i> , 2018, 11, 743-752.	3.6	81
111	Integrating the active OER and HER components as the heterostructures for the efficient overall water splitting. <i>Nano Energy</i> , 2018, 44, 353-363.	8.2	516
112	MOF-derived Cu-Pd/nanoporous carbon composite as an efficient catalyst for hydrogen evolution reaction: A comparison between hydrothermal and electrochemical synthesis. <i>Applied Surface Science</i> , 2018, 436, 451-459.	3.1	50
113	Influence of graphitic materials microstructure in the hydrogen evolution in aqueous solution of tetra-alkylammonium-sulfonic acid ionic liquid. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 1239-1250.	3.8	7
114	Palladium deposition on copper(II) phthalocyanine/metal organic framework composite and electrocatalytic activity of the modified electrode towards the hydrogen evolution reaction. <i>Renewable Energy</i> , 2018, 119, 62-72.	4.3	52
115	Metal-free bifunctional carbon electrocatalysts derived from zeolitic imidazolate frameworks for efficient water splitting. <i>Materials Chemistry Frontiers</i> , 2018, 2, 102-111.	3.2	57
116	Polyaniline Derived N-Doped Carbon-Coated Cobalt Phosphide Nanoparticles Deposited on N-Doped Graphene as an Efficient Electrocatalyst for Hydrogen Evolution Reaction. <i>Small</i> , 2018, 14, 1702895.	5.2	122
117	Holey Reduced Graphene Oxide Coupled with an Mo ₂ N-Mo ₂ C Heterojunction for Efficient Hydrogen Evolution. <i>Advanced Materials</i> , 2018, 30, 1704156.	11.1	459
118	Polyaniline-metal organic framework nanocomposite as an efficient electrocatalyst for hydrogen evolution reaction. <i>Composites Part B: Engineering</i> , 2018, 137, 129-139.	5.9	80
119	In Situ Preparation of Mo ₂ C Nanoparticles Embedded in Ketjenblack Carbon as Highly Efficient Electrocatalysts for Hydrogen Evolution. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 983-990.	3.2	83
120	Interlayer-expanded and defect-rich metal dichalcogenide (MX ₂) nanosheets for active and stable hydrogen evolution. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 3140-3147.	3.0	16
121	Microwave-assisted preparation of Ag/Ag ₂ S carbon hybrid structures from pig bristles as efficient HER catalysts. <i>Journal of Materials Chemistry A</i> , 2018, 6, 21516-21523.	5.2	48
122	Ferric phosphide carbon nanocomposites emerging as highly active electrocatalysts for the hydrogen evolution reaction. <i>Dalton Transactions</i> , 2018, 47, 16011-16018.	1.6	12
123	Single-Atom to Single-Atom Grafting of Pt ₁ onto Fe ₄ N ₄ Center: Pt ₁ @Fe ₄ N ₄ C Multifunctional Electrocatalyst with Significantly Enhanced Properties. <i>Advanced Energy Materials</i> , 2018, 8, 1701345.	10.2	371
124	Heterointerface engineering of trilayer-shelled ultrathin MoS ₂ /MoP/N-doped carbon hollow nanobubbles for efficient hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2018, 6, 24783-24792.	5.2	79
125	Functionalization of Graphite with the Diels-Alder Reaction to Fabricate Metal-Free Electrocatalysts for Highly Efficient Hydrogen Evolution Reaction. <i>ChemistrySelect</i> , 2018, 3, 13070-13075.	0.7	5
126	Lead cathodes functionalized with magnetite particles with enhanced electrocatalytic activity for hydrogen evolution reaction in sulfuric acid solutions. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 23239-23254.	3.8	2
127	Iron phosphide encapsulated in P-doped graphitic carbon as efficient and stable electrocatalyst for hydrogen and oxygen evolution reactions. <i>Nanoscale</i> , 2018, 10, 21327-21334.	2.8	91

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129	Insights on Tafel Constant in the Analysis of Hydrogen Evolution Reaction. <i>Journal of Physical Chemistry C</i> , 2018, 122, 23943-23949.	1.5	136
130	One-pot synthesis of graphene-wrapped NiSe ₂ -Ni _{0.85} Se hollow microspheres as superior and stable electrocatalyst for hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2018, 291, 242-248.	2.6	28
131	gâ€C ₃ /N ₄ /CeO ₂ /Fe ₃ O ₄ Ternary Composite as an Efficient Bifunctional Catalyst for Overall Water Splitting. <i>ChemCatChem</i> , 2018, 10, 5587-5592.	1.8	37
132	Effect of Curvature on the Hydrogen Evolution Reaction of Graphene. <i>Journal of Physical Chemistry C</i> , 2018, 122, 25331-25338.	1.5	33
133	One-step synthesis of Fe-Ni hydroxide nanosheets derived from bimetallic foam for efficient electrocatalytic oxygen evolution and overall water splitting. <i>Chinese Chemical Letters</i> , 2018, 29, 1875-1878.	4.8	66
134	Liquid Crystal Template Assisted Electrodeposition of Molybdenum Sulfide Nanoparticles Supported on Carbon Fiber as Efficient Electrocatalyst for Hydrogen Evolution Reaction. <i>International Journal of Electrochemical Science</i> , 2018, 13, 5488-5496.	0.5	1
135	Ir/g-C ₃ /N ₄ /Nitrogen-Doped Graphene Nanocomposites as Bifunctional Electrocatalysts for Overall Water Splitting in Acidic Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 39161-39167.	4.0	80
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