

Bin Dong

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

223
papers

7,930⁰
citations

53
h-index

78
g-index

237
ext. papers

9,732
ext. citations

7.1
avg, IF

6.36
L-index

#	Paper	IF	Citations
223	Surface adsorption and micelle formation of surface active ionic liquids in aqueous solution. <i>Langmuir</i> , 2007 , 23, 4178-82	4	440
222	Preparation and electrochemical properties of Ag-modified TiO ₂ nanotube anode material for lithium-ion battery. <i>Electrochemistry Communications</i> , 2007 , 9, 425-430	5.1	289
221	Two-step synthesis of binary NiFe sulfides supported on nickel foam as highly efficient electrocatalysts for the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 13499-13508	13.3	189
220	Preparation and electrochemical characterization of polyaniline/multi-walled carbon nanotubes composites for supercapacitor. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2007 , 143, 7-13	3.1	173
219	NiSe@NiOOH Core-Shell Hyacinth-like Nanostructures on Nickel Foam Synthesized by in Situ Electrochemical Oxidation as an Efficient Electrocatalyst for the Oxygen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 20057-66	9.5	170
218	Organic-inorganic hybrids-directed ternary NiFeMoS anemone-like nanorods with scaly surface supported on nickel foam for efficient overall water splitting. <i>Chemical Engineering Journal</i> , 2018 , 334, 922-931	14.7	162
217	Modulation of Inverse Spinel Fe ₃ O ₄ by Phosphorus Doping as an Industrially Promising Electrocatalyst for Hydrogen Evolution. <i>Advanced Materials</i> , 2019 , 31, e1905107	24	114
216	Trimetallic NiFeCo selenides nanoparticles supported on carbon fiber cloth as efficient electrocatalyst for oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 20599-20607	6.7	113
215	In situ cathodic activation of V-incorporated NiS nanowires for enhanced hydrogen evolution. <i>Nanoscale</i> , 2017 , 9, 12353-12363	7.7	111
214	Porous core-shell N-doped Mo ₂ C@C nanospheres derived from inorganic-organic hybrid precursors for highly efficient hydrogen evolution. <i>Journal of Catalysis</i> , 2018 , 360, 9-19	7.3	110
213	Facile one-pot synthesis of CoS ₂ -MoS ₂ /CNTs as efficient electrocatalyst for hydrogen evolution reaction. <i>Applied Surface Science</i> , 2016 , 384, 51-57	6.7	104
212	Mesoporous Ag-doped Co ₃ O ₄ nanowire arrays supported on FTO as efficient electrocatalysts for oxygen evolution reaction in acidic media. <i>Renewable Energy</i> , 2018 , 119, 54-61	8.1	100
211	Oriented Stacking along Vertical (002) Planes of MoS ₂ : A Novel Assembling Style to Enhance Activity for Hydrogen Evolution. <i>Electrochimica Acta</i> , 2017 , 224, 25-31	6.7	98
210	Salt-induced viscoelastic wormlike micelles formed in surface active ionic liquid aqueous solution. <i>Journal of Colloid and Interface Science</i> , 2008 , 319, 338-43	9.3	96
209	Ultrathin MoS ₂ -coated carbon nanospheres as highly efficient electrocatalysts for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 6552-6558	6.7	95
208	Microbial synthesis of Pd/Fe ₃ O ₄ , Au/Fe ₃ O ₄ and PdAu/Fe ₃ O ₄ nanocomposites for catalytic reduction of nitroaromatic compounds. <i>Scientific Reports</i> , 2015 , 5, 13515	4.9	91
207	Three dimensional nickel oxides/nickel structure by in situ electro-oxidation of nickel foam as robust electrocatalyst for oxygen evolution reaction. <i>Applied Surface Science</i> , 2015 , 359, 172-176	6.7	87

206	Self-aggregation behavior of fluorescent carbazole-tailed imidazolium ionic liquids in aqueous solutions. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 340-8	3.4	87
205	Probing the active sites of Co ₃ O ₄ for the acidic oxygen evolution reaction by modulating the Co ²⁺ /Co ³⁺ ratio. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 5678-5686	13	86
204	Controlling electrodeposited ultrathin amorphous Fe hydroxides film on V-doped nickel sulfide nanowires as efficient electrocatalyst for water oxidation. <i>Journal of Power Sources</i> , 2017 , 363, 44-53	8.9	86
203	Tungsten-doped NiCo phosphides with multiple catalytic sites as efficient electrocatalysts for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 16859-16866	13	83
202	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	7.3	83
201	In situ Grown Pyramid Structures of Nickel Diselenides Dependent on Oxidized Nickel Foam as Efficient Electrocatalyst for Oxygen Evolution Reaction. <i>Electrochimica Acta</i> , 2016 , 205, 77-84	6.7	83
200	Mo _x supported graphene oxides with different degree of oxidation as efficient electrocatalysts for hydrogen evolution. <i>Carbon</i> , 2016 , 100, 236-242	10.4	77
199	In-situ electrochemical activation designed hybrid electrocatalysts for water electrolysis. <i>Science Bulletin</i> , 2018 , 63, 853-876	10.6	76
198	Electrodeposited hybrid NiB/Mo _x film as efficient electrocatalyst for hydrogen evolution in alkaline media. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 2952-2960	6.7	76
197	Study on Tribological Properties of Multi-walled Carbon Nanotubes/Epoxy Resin Nanocomposites. <i>Tribology Letters</i> , 2005 , 20, 251-254	2.8	76
196	Effect of pH on the growth of MoS ₂ (002) plane and electrocatalytic activity for HER. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 294-299	6.7	74
195	Ternary mixed metal Fe-doped NiCo ₂ O ₄ nanowires as efficient electrocatalysts for oxygen evolution reaction. <i>Applied Surface Science</i> , 2017 , 416, 371-378	6.7	73
194	In situ sulfurized CoMoS/CoMoO ₄ shell-core nanorods supported on N-doped reduced graphene oxide (NRGO) as efficient electrocatalyst for hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 2885-2896	13	72
193	Ternary metal sulfides MoCoNiS derived from metal organic frameworks for efficient oxygen evolution. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 2745-2753	6.7	72
192	High dispersion and electrocatalytic activity of Pd/titanium dioxide nanotubes catalysts for hydrazine oxidation. <i>Journal of Power Sources</i> , 2008 , 175, 266-271	8.9	71
191	A study on carbon nanotubes reinforced poly(methyl methacrylate) nanocomposites. <i>Materials Letters</i> , 2005 , 59, 2128-2132	3.3	71
190	Electrodeposited Mo _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	6.7	70
189	One-pot synthesis of hierarchical Ni ₂ P/MoS ₂ hybrid electrocatalysts with enhanced activity for hydrogen evolution reaction. <i>Applied Surface Science</i> , 2016 , 383, 276-282	6.7	69

- 188 Hydrogen Evolution Activity of Ruthenium Phosphides Encapsulated in Nitrogen- and Phosphorous-Codoped Hollow Carbon Nanospheres. *ChemSusChem*, **2018**, 11, 743-752 8.3 67
- 187 Ultrafine and highly-dispersed bimetal Ni₂P/Co₂P encapsulated by hollow N-doped carbon nanospheres for efficient hydrogen evolution. *International Journal of Hydrogen Energy*, **2019**, 44, 14908-14917^{6.7} 66
- 186 Novel mesoporous MnO₂ for high-rate electrochemical capacitive energy storage. *Electrochimica Acta*, **2010**, 55, 5117-5122 6.7 66
- 185 Enhanced wear resistance and micro-hardness of polystyrene nanocomposites by carbon nanotubes. *Materials Chemistry and Physics*, **2005**, 94, 109-113 4.4 66
- 184 Activating MoS₂/CNs by tuning (001) plane as efficient electrocatalysts for hydrogen evolution reaction. *International Journal of Hydrogen Energy*, **2017**, 42, 2088-2095 6.7 65
- 183 A MOF-derived coral-like NiSe@NC nanohybrid: an efficient electrocatalyst for the hydrogen evolution reaction at all pH values. *Nanoscale*, **2018**, 10, 22758-22765 7.7 65
- 182 Ternary CoS₂/MoS₂/RGO electrocatalyst with CoMoS phase for efficient hydrogen evolution. *Applied Surface Science*, **2017**, 412, 138-145 6.7 63
- 181 Novel CoxSy/WS₂ nanosheets supported on carbon cloth as efficient electrocatalyst for hydrogen evolution reaction. *International Journal of Hydrogen Energy*, **2017**, 42, 4165-4173 6.7 63
- 180 Facile synthesis of Fe-doped Co₉S₈ nano-microspheres grown on nickel foam for efficient oxygen evolution reaction. *Applied Surface Science*, **2018**, 454, 46-53 6.7 62
- 179 Bimetallic CoFeP hollow microspheres as highly efficient bifunctional electrocatalysts for overall water splitting in alkaline media. *Applied Surface Science*, **2019**, 465, 816-823 6.7 60
- 178 WS₂ nanosheets based on liquid exfoliation as effective electrocatalysts for hydrogen evolution reaction. *Materials Chemistry and Physics*, **2015**, 167, 271-277 4.4 59
- 177 Hydrogen evolution under large-current-density based on fluorine-doped cobalt-iron phosphides. *Chemical Engineering Journal*, **2020**, 399, 125831 14.7 57
- 176 Carbon fiber cloth supported interwoven WS₂ nanosheets with highly enhanced performances for supercapacitors. *Applied Surface Science*, **2017**, 392, 708-714 6.7 57
- 175 Performance of polyaniline/multi-walled carbon nanotubes composites as cathode for rechargeable lithium batteries. *Materials Chemistry and Physics*, **2009**, 114, 371-375 4.4 57
- 174 Embedding RhPx in N, P Co-Doped Carbon Nanoshells Through Synergetic Phosphorization and Pyrolysis for Efficient Hydrogen Evolution. *Advanced Functional Materials*, **2019**, 29, 1901790 15.6 56
- 173 Crystallographic Structure and Morphology Transformation of MnO₂ Nanorods as Efficient Electrocatalysts for Oxygen Evolution Reaction. *Journal of the Electrochemical Society*, **2016**, 163, H67-H73^{3.9} 55
- 172 Heterointerface engineering of trilayer-shelled ultrathin MoS₂/MoP/N-doped carbon hollow nanobubbles for efficient hydrogen evolution. *Journal of Materials Chemistry A*, **2018**, 6, 24783-24792 13 54
- 171 Oxidized carbon fiber supported vertical WS₂ nanosheets arrays as efficient 3 D nanostructure electrocatalysts for hydrogen evolution reaction. *Applied Surface Science*, **2017**, 402, 120-128 6.7 53

170	Synthesis and Characterization of Microscale Gold Nanoplates Using Langmuir Monolayers of Long-Chain Ionic Liquid. <i>Crystal Growth and Design</i> , 2008 , 8, 3840-3846	3.5	53
169	Three-dimensional VO _x /NiS/NF nanosheets as efficient electrocatalyst for oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 10156-10162	6.7	50
168	Novel CoP Hollow Prisms as Bifunctional Electrocatalysts for Hydrogen Evolution Reaction in Acid media and Overall Water-splitting in Basic media. <i>Electrochimica Acta</i> , 2016 , 220, 98-106	6.7	50
167	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	6.7	49
166	Electrochemically activated NiSe-Ni _x S _y hybrid nanorods as efficient electrocatalysts for oxygen evolution reaction. <i>Electrochimica Acta</i> , 2016 , 220, 536-544	6.7	48
165	N-Doped Sandwich-Structured MoC@C@Pt Interface with Ultralow Pt Loading for pH-Universal Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 4047-4056	9.5	48
164	In situ construction of surface defects of carbon-doped ternary cobalt-nickel-iron phosphide nanocubes for efficient overall water splitting. <i>Science China Materials</i> , 2019 , 62, 1285-1296	7.1	47
163	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	10.4	47
162	Densely packed single-crystal Bi ₂ Fe ₄ O ₉ nanowires fabricated from a template-induced sol-gel route. <i>Journal of Solid State Chemistry</i> , 2006 , 179, 3324-3329	3.3	47
161	Ternary MnO ₂ /NiCo ₂ O ₄ /NF with hierarchical structure and synergistic interaction as efficient electrocatalysts for oxygen evolution reaction. <i>Journal of Alloys and Compounds</i> , 2017 , 719, 314-321	5.7	46
160	In situ growth of Ni _x S _y controlled by surface treatment of nickel foam as efficient electrocatalyst for oxygen evolution reaction. <i>Applied Surface Science</i> , 2016 , 378, 15-21	6.7	46
159	Zinc ion induced three-dimensional Co ₉ S ₈ nano-neuron network for efficient hydrogen evolution. <i>Renewable Energy</i> , 2020 , 157, 415-423	8.1	45
158	A facile synthesis of reduced Co ₃ O ₄ nanoparticles with enhanced Electrocatalytic activity for oxygen evolution. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 12976-12982	6.7	45
157	Controllable Transformation of Aligned ZnO Nanorods to ZIF-8 as Solid-Phase Microextraction Coatings with Tunable Porosity, Polarity, and Conductivity. <i>Analytical Chemistry</i> , 2019 , 91, 5091-5097	7.8	44
156	Fe-doped CoP core-shell structure with open cages as efficient electrocatalyst for oxygen evolution. <i>Journal of Energy Chemistry</i> , 2020 , 48, 328-333	12	44
155	A facile method for reduced CoFe ₂ O ₄ nanosheets with rich oxygen vacancies for efficient oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 24150-24158	6.7	42
154	Controllable synthesis of three dimensional electrodeposited CoP nanosphere arrays as efficient electrocatalysts for overall water splitting. <i>RSC Advances</i> , 2016 , 6, 52761-52771	3.7	42
153	RuO ₂ /Co ₃ O ₄ Nanocubes based on Ru ions impregnation into prussian blue precursor for oxygen evolution. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 9575-9582	6.7	41

152	Microbial synthesis of bimetallic PdPt nanoparticles for catalytic reduction of 4-nitrophenol. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 5249-5258	5.1	40
151	Facile synthesis of V-doped CoP nanoparticles as bifunctional electrocatalyst for efficient water splitting. <i>Journal of Energy Chemistry</i> , 2019 , 39, 182-187	12	40
150	Tuning crystal phase of NiS _x through electro-oxidized nickel foam: A novel route for preparing efficient electrocatalysts for oxygen evolution reaction. <i>Applied Surface Science</i> , 2017 , 396, 1034-1043	6.7	40
149	Controlled synthesis of highly ordered LaFeO ₃ nanowires using a citrate-based sol-gel route. <i>Materials Research Bulletin</i> , 2006 , 41, 274-281	5.1	38
148	Electrodeposition-Solvothermal Access to Ternary Mixed Metal Ni-Co-Fe Sulfides for Highly Efficient Electrocatalytic Water Oxidation in Alkaline Media. <i>Electrochimica Acta</i> , 2017 , 230, 151-159	6.7	37
147	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	6.7	37
146	Ionic liquid assisted hydrothermal synthesis of hollow vesicle-like MoS ₂ microspheres. <i>Materials Letters</i> , 2012 , 66, 236-238	3.3	37
145	Facile synthesis of binary NiCoS nanorods supported on nickel foam as efficient electrocatalysts for oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 17129-17135	6.7	37
144	Nitrogen, phosphorus dual-doped molybdenum-carbide/molybdenum-phosphide@-carbon nanospheres for efficient hydrogen evolution over the whole pH range. <i>Journal of Colloid and Interface Science</i> , 2018 , 513, 151-160	9.3	37
143	Facile synthesis of MoS ₂ /RGO in dimethyl-formamide solvent as highly efficient catalyst for hydrogen evolution. <i>Materials Letters</i> , 2015 , 161, 120-123	3.3	36
142	Aggregation behavior of long-chain imidazolium ionic liquids in ethylammonium nitrate. <i>Colloid and Polymer Science</i> , 2010 , 288, 1225-1232	2.4	34
141	Novel WS ₂ /WO ₃ heterostructured nanosheets as efficient electrocatalyst for hydrogen evolution reaction. <i>Materials Chemistry and Physics</i> , 2017 , 197, 123-128	4.4	33
140	Urchin-Like Nanorods of Binary NiCoS Supported on Nickel Foam for Electrocatalytic Overall Water Splitting. <i>Journal of the Electrochemical Society</i> , 2018 , 165, H102-H108	3.9	33
139	Electrodeposition of mesoporous manganese dioxide films from lyotropic liquid crystalline phases. <i>Microporous and Mesoporous Materials</i> , 2008 , 112, 627-631	5.3	33
138	Template-assisted synthesis of highly dispersed MoS ₂ nanosheets with enhanced activity for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 2054-2060	6.7	32
137	Dispersion of carbon nanotubes by carbazole-tailed amphiphilic imidazolium ionic liquids in aqueous solutions. <i>Journal of Colloid and Interface Science</i> , 2011 , 356, 190-5	9.3	32
136	Template induced sol-gel synthesis of highly ordered LaNiO ₃ nanowires. <i>Journal of Solid State Chemistry</i> , 2005 , 178, 1157-1164	3.3	32
135	Induced Phosphorization-Derived Well-Dispersed Molybdenum Phosphide Nanoparticles Encapsulated in Hollow N-Doped Carbon Nanospheres for Efficient Hydrogen Evolution. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 7676-7686	8.3	31

134	A study on microhardness and tribological behavior of carbon nanotubes reinforced AMMA-CNTs copolymer nanocomposites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 478, 314-318	5.3	31
133	Preparation and characterization of ruthenium-doped polypyrrole composites for supercapacitor. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 374, 322-326	5.3	31
132	Tuning the morphology and Fe/Ni ratio of a bimetallic Fe-Ni-S film supported on nickel foam for optimized electrolytic water splitting. <i>Journal of Colloid and Interface Science</i> , 2018 , 523, 121-132	9.3	30
131	Solvothermal access to rich nitrogen-doped molybdenum carbide nanowires as efficient electrocatalyst for hydrogen evolution reaction. <i>Journal of Alloys and Compounds</i> , 2017 , 714, 26-34	5.7	29
130	N, P dual-doped hollow carbon spheres supported MoS ₂ hybrid electrocatalyst for enhanced hydrogen evolution reaction. <i>Catalysis Today</i> , 2019 , 330, 259-267	5.3	28
129	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	6.8	27
128	N-doped FeP nanorods derived from Fe-MOFs as bifunctional electrocatalysts for overall water splitting. <i>Applied Surface Science</i> , 2020 , 507, 145096	6.7	27
127	S-doped nickel-iron hydroxides synthesized by room-temperature electrochemical activation for efficient oxygen evolution. <i>Applied Catalysis B: Environmental</i> , 2021 , 292, 120150	21.8	26
126	Heterostructured binary Ni-W sulfides nanosheets as pH-universal electrocatalyst for hydrogen evolution. <i>Applied Surface Science</i> , 2018 , 445, 445-453	6.7	25
125	Novel Pt nanoclusters/titanium dioxide nanotubes composites for hydrazine oxidation. <i>Materials Chemistry and Physics</i> , 2010 , 120, 404-408	4.4	25
124	Recent Progress in Decoupled H ₂ and O ₂ Production from Electrolytic Water Splitting. <i>ChemElectroChem</i> , 2019 , 6, 2157-2166	4.3	25
123	Electrochemical Corrosion Engineering for Ni-Fe Oxides with Superior Activity toward Water Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 42217-42224	9.5	25
122	Biogenic gold nanoparticles-reduced graphene oxide nanohybrid: synthesis, characterization and application in chemical and biological reduction of nitroaromatics. <i>RSC Advances</i> , 2015 , 5, 97798-97806	3.7	24
121	Recent advances of nonprecious and bifunctional electrocatalysts for overall water splitting. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 3211-3228	5.8	24
120	Double-catalytic-site engineering of nickel-based electrocatalysts by group VB metals doping coupling with in-situ cathodic activation for hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2019 , 258, 117984	21.8	24
119	Self-sacrificial template method of Mo ₃ O ₁₀ (C ₆ H ₈ N) ₂ ·H ₂ O to fabricate MoS ₂ /carbon-doped MoO ₂ nanobelts as efficient electrocatalysts for hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2016 , 216, 397-404	6.7	24
118	Surface phosphorsulfurization of NiCo ₂ O ₄ nanoneedles supported on carbon cloth with enhanced electrocatalytic activity for hydrogen evolution. <i>Electrochimica Acta</i> , 2018 , 290, 339-346	6.7	24
117	Binary metal Fe _{0.5} Co _{0.5} Se ₂ spheres supported on carbon fiber cloth for efficient oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 15189-15195	6.7	23

116	ZrO ₂ Nanoparticles Synthesized using Ionic Liquid Microemulsion. <i>Journal of Dispersion Science and Technology</i> , 2007 , 28, 1030-1033	1.5	23
115	Double doping of V and F on Co ₃ O ₄ nanoneedles as efficient electrocatalyst for oxygen evolution. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 19962-19970	6.7	23
114	Transformation of silver ions to silver nanoparticles mediated by humic acid under dark conditions at ambient temperature. <i>Journal of Hazardous Materials</i> , 2020 , 383, 121190	12.8	23
113	Copper and cobalt co-doped Ni ₃ S ₂ grown on nickel foam for highly efficient oxygen evolution reaction. <i>Applied Surface Science</i> , 2020 , 502, 144172	6.7	22
112	Pt-C Interfaces Based on Electronegativity-Functionalized Hollow Carbon Spheres for Highly Efficient Hydrogen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 43561-43569	9.5	22
111	CarbonBased transition metal sulfides/selenides nanostructures for electrocatalytic water splitting. <i>Journal of Alloys and Compounds</i> , 2021 , 852, 156810	5.7	21
110	Synergistic effect of metallic nickel and cobalt oxides with nitrogen-doped carbon nanospheres for highly efficient oxygen evolution. <i>Chinese Journal of Catalysis</i> , 2020 , 41, 1782-1789	11.3	20
109	Sol-gel template synthesis and characterization of LaCoO ₃ nanowires. <i>Applied Physics A: Materials Science and Processing</i> , 2006 , 84, 117-122	2.6	20
108	Surface construction of loose Co(OH) shell derived from ZIF-67 nanocube for efficient oxygen evolution. <i>Journal of Colloid and Interface Science</i> , 2020 , 562, 279-286	9.3	20
107	Recent development on self-supported transition metal-based catalysts for water electrolysis at large current density. <i>Applied Materials Today</i> , 2021 , 22, 100913	6.6	20
106	Hierarchical CoSeS nanostructures assisted by Nb doping for enhanced hydrogen evolution reaction. <i>Chinese Journal of Catalysis</i> , 2021 , 42, 431-438	11.3	20
105	Advances and Challenges of Fe-MOFs Based Materials as Electrocatalysts for Water Splitting. <i>Applied Materials Today</i> , 2020 , 20, 100692	6.6	19
104	Design and modulation principles of molybdenum carbide-based materials for green hydrogen evolution. <i>Journal of Energy Chemistry</i> , 2020 , 48, 398-423	12	19
103	Preparation and tribological properties of poly(methyl methacrylate)/styrene/MWNTs copolymer nanocomposites. <i>Journal of Applied Polymer Science</i> , 2008 , 108, 1675-1679	2.9	19
102	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	6.7	18
101	Ripple-like NiFeCo sulfides on nickel foam derived from in-situ sulfurization of precursor oxides as efficient anodes for water oxidation. <i>Applied Surface Science</i> , 2018 , 428, 370-376	6.7	17
100	Preparation of porous MoS ₂ via a sol-gel route using (NH ₄) ₂ Mo ₃ S ₁₃ as precursor. <i>Materials Letters</i> , 2012 , 88, 112-115	3.3	17
99	A triple synergistic effect from pitaya-like MoNi _x MoC _x hybrids encapsulated in N-doped C nanospheres for efficient hydrogen evolution. <i>Sustainable Energy and Fuels</i> , 2018 , 2, 1610-1620	5.8	17

98	Vanadium sulfides interwoven nanoflowers based on in-situ sulfurization of vanadium oxides octahedron on nickel foam for efficient hydrogen evolution. <i>Applied Surface Science</i> , 2017 , 423, 1090-1096	6.7	16
97	Optimized bimetallic nickel-iron phosphides with rich defects as enhanced electrocatalysts for oxygen evolution reaction. <i>Journal of Colloid and Interface Science</i> , 2019 , 537, 11-19	9.3	16
96	Ternary Ni-Fe-V sulfides bundles on nickel foam as free-standing hydrogen evolution electrodes in alkaline medium. <i>Electrochimica Acta</i> , 2017 , 256, 241-251	6.7	15
95	Interface Charge Engineering of Ultrafine Ru/Ni ₂ P Nanoparticles Encapsulated in N,P-Codoped Hollow Carbon Nanospheres for Efficient Hydrogen Evolution. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 17714-17722	8.3	15
94	Intramolecular singlet fission in a face-to-face stacked tetracene trimer. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 6330-6336	3.6	15
93	Accurate layers determination of graphene on transparent substrate based on polarization-sensitive absorption effect. <i>Applied Physics Letters</i> , 2013 , 103, 181902	3.4	15
92	Facile Synthesis of Highly Dispersed WO ₃ ·H ₂ O and WO ₃ Nanoplates for Electrocatalytic Hydrogen Evolution. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-6	3.2	15
91	Enhanced bioreduction of nitrobenzene by reduced graphene oxide materials: effects of surface modification and coexisting soluble electron shuttles. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 26874-26880	5.1	14
90	Fabrication and structural properties of LaFeO ₃ nanowires by an ethanol/ammonia-based sol-gel template route. <i>Applied Physics A: Materials Science and Processing</i> , 2005 , 81, 453-457	2.6	14
89	In situ construction of Fe(Co)OOH through ultra-fast electrochemical activation as real catalytic species for enhanced water oxidation. <i>Chemical Engineering Journal</i> , 2021 , 426, 131943	14.7	14
88	Self-sacrificial template method to MnO ₂ microspheres as highly efficient electrocatalyst for oxygen evolution reaction. <i>Journal of Solid State Electrochemistry</i> , 2016 , 20, 2907-2912	2.6	13
87	Tailoring electron transfer with Ce integration in ultrathin Co(OH) ₂ nanosheets by fast microwave for oxygen evolution reaction. <i>Journal of Energy Chemistry</i> , 2021 , 59, 299-305	12	13
86	Motivating high-valence Nb doping by fast molten salt method for NiFe hydroxides toward efficient oxygen evolution reaction. <i>Chemical Engineering Journal</i> , 2022 , 427, 131643	14.7	13
85	Facile synthesis of hollow SnO ₂ nanospheres uniformly coated by Ag for electro-oxidation of hydrazine. <i>Materials Letters</i> , 2017 , 189, 9-12	3.3	12
84	Directional regulating dynamic equilibrium to continuously update electrocatalytic interface for oxygen evolution reaction. <i>Chemical Engineering Journal</i> , 2022 , 431, 134040	14.7	12
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