

Bin Dong

List of Publications by Year in descending order

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237
papers

11,488
citations

16411

64
h-index

40881

93
g-index

237
all docs

237
docs citations

237
times ranked

10454
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Surface Adsorption and Micelle Formation of Surface Active Ionic Liquids in Aqueous Solution. <i>Langmuir</i> , 2007, 23, 4178-4182. | 1.6 | 486 |
| 2 | Preparation and electrochemical properties of Ag-modified TiO ₂ nanotube anode material for lithium-ion battery. <i>Electrochemistry Communications</i> , 2007, 9, 425-430. | 2.3 | 306 |
| 3 | Two-step synthesis of binary Ni-Fe 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. | 5.2 | 250 |
| 4 | 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. | 11.1 | 225 |
| 5 | 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, 20057-20066. | 4.0 | 221 |
| 6 | 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. | 6.6 | 216 |
| 7 | 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. | 1.7 | 199 |
| 8 | Tungsten-doped Ni-Co phosphides with multiple catalytic sites as efficient electrocatalysts for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2019, 7, 16859-16866. | 5.2 | 144 |
| 9 | In situ cathodic activation of V-incorporated Ni _x S _y nanowires for enhanced hydrogen evolution. <i>Nanoscale</i> , 2017, 9, 12353-12363. | 2.8 | 143 |
| 10 | 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. | 4.3 | 136 |
| 11 | 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. | 5.2 | 134 |
| 12 | Trimetallic Ni Fe Co 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. | 3.8 | 133 |
| 13 | Ternary metal sulfides MoCoNiS derived from metal organic frameworks for efficient oxygen evolution. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 2745-2753. | 3.8 | 130 |
| 14 | 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. | 3.1 | 124 |
| 15 | S-doped nickel-iron hydroxides synthesized by room-temperature electrochemical activation for efficient oxygen evolution. <i>Applied Catalysis B: Environmental</i> , 2021, 292, 120150. | 10.8 | 122 |
| 16 | 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. | 3.1 | 121 |
| 17 | Hydrogen evolution under large-current-density based on fluorine-doped cobalt-iron phosphides. <i>Chemical Engineering Journal</i> , 2020, 399, 125831. | 6.6 | 120 |
| 18 | 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. | 2.6 | 116 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | 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 |
| 20 | 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. | 1.6 | 110 |
| 21 | 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. | 4.0 | 109 |
| 22 | In-situ electrochemical activation designed hybrid electrocatalysts for water electrolysis. <i>Science Bulletin</i> , 2018, 63, 853-876. | 4.3 | 107 |
| 23 | 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. | 3.1 | 106 |
| 24 | 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. | 3.8 | 104 |
| 25 | MoS _x supported graphene oxides with different degree of oxidation as efficient electrocatalysts for hydrogen evolution. <i>Carbon</i> , 2016, 100, 236-242. | 5.4 | 103 |
| 26 | Salt-induced viscoelastic wormlike micelles formed in surface active ionic liquid aqueous solution. <i>Journal of Colloid and Interface Science</i> , 2008, 319, 338-343. | 5.0 | 102 |
| 27 | 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. | 3.8 | 99 |
| 28 | 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. | 3.1 | 98 |
| 29 | 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. | 2.6 | 96 |
| 30 | Bimetallic CoFeP hollow microspheres as highly efficient bifunctional electrocatalysts for overall water splitting in alkaline media. <i>Applied Surface Science</i> , 2019, 465, 816-823. | 3.1 | 96 |
| 31 | 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. | 7.1 | 95 |
| 32 | Self-Aggregation Behavior of Fluorescent Carbazole-Tailed Imidazolium Ionic Liquids in Aqueous Solutions. <i>Journal of Physical Chemistry B</i> , 2010, 114, 340-348. | 1.2 | 92 |
| 33 | 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. | 3.5 | 92 |
| 34 | 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. | 5.2 | 91 |
| 35 | Ultrafine and highly-dispersed bimetal Ni ₂ P/Co ₂ P encapsulated by hollow N-doped carbon nanospheres for efficient hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 14908-14917. | 3.8 | 90 |
| 36 | Directional regulating dynamic equilibrium to continuously update electrocatalytic interface for oxygen evolution reaction. <i>Chemical Engineering Journal</i> , 2022, 431, 134040. | 6.6 | 90 |

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|----|--|-----|-----------|
| 37 | Study on Tribological Properties of Multi-walled Carbon Nanotubes/Epoxy Resin Nanocomposites. Tribology Letters, 2005, 20, 251-254. | 1.2 | 88 |
| 38 | Zinc ion induced three-dimensional Co ₉ S ₈ nano-neuron network for efficient hydrogen evolution. Renewable Energy, 2020, 157, 415-423. | 4.3 | 88 |
| 39 | Electrodeposited hybrid Ni-P/MoS _x film as efficient electrocatalyst for hydrogen evolution in alkaline media. International Journal of Hydrogen Energy, 2017, 42, 2952-2960. | 3.8 | 87 |
| 40 | Ternary CoS ₂ /MoS ₂ /RGO electrocatalyst with CoMoS phase for efficient hydrogen evolution. Applied Surface Science, 2017, 412, 138-145. | 3.1 | 84 |
| 41 | Facile synthesis of Fe-doped Co ₉ S ₈ nano-microspheres grown on nickel foam for efficient oxygen evolution reaction. Applied Surface Science, 2018, 454, 46-53. | 3.1 | 84 |
| 42 | In situ construction of Fe(Co)OOH through ultra-fast electrochemical activation as real catalytic species for enhanced water oxidation. Chemical Engineering Journal, 2021, 426, 131943. | 6.6 | 84 |
| 43 | High dispersion and electrocatalytic activity of Pd/titanium dioxide nanotubes catalysts for hydrazine oxidation. Journal of Power Sources, 2008, 175, 266-271. | 4.0 | 83 |
| 44 | One-pot synthesis of hierarchical Ni ₂ P/MoS ₂ hybrid electrocatalysts with enhanced activity for hydrogen evolution reaction. Applied Surface Science, 2016, 383, 276-282. | 3.1 | 81 |
| 45 | Hydrogen Evolution Activity of Ruthenium Phosphides Encapsulated in Nitrogen- and Phosphorous-Codoped Hollow Carbon Nanospheres. ChemSusChem, 2018, 11, 743-752. | 3.6 | 81 |
| 46 | Heterointerface engineering of trilayer-shelled ultrathin MoS ₂ /MoP/N-doped carbon hollow nanobubbles for efficient hydrogen evolution. Journal of Materials Chemistry A, 2018, 6, 24783-24792. | 5.2 | 79 |
| 47 | N-Doped Sandwich-Structured Mo ₂ C@C@Pt Interface with Ultralow Pt Loading for pH-Universal Hydrogen Evolution Reaction. ACS Applied Materials & Interfaces, 2019, 11, 4047-4056. | 4.0 | 79 |
| 48 | RuO ₂ /Co ₃ O ₄ Nanocubes based on Ru ions impregnation into prussian blue precursor for oxygen evolution. International Journal of Hydrogen Energy, 2020, 45, 9575-9582. | 3.8 | 79 |
| 49 | A study on carbon nanotubes reinforced poly(methyl methacrylate) nanocomposites. Materials Letters, 2005, 59, 2128-2132. | 1.3 | 78 |
| 50 | WS ₂ nanosheets based on liquid exfoliation as effective electrocatalysts for hydrogen evolution reaction. Materials Chemistry and Physics, 2015, 167, 271-277. | 2.0 | 78 |
| 51 | Electrodeposited MoS _x films assisted by liquid crystal template with ultrahigh electrocatalytic activity for hydrogen evolution reaction. International Journal of Hydrogen Energy, 2017, 42, 5132-5138. | 3.8 | 78 |
| 52 | Novel CoxSy/WS ₂ nanosheets supported on carbon cloth as efficient electrocatalyst for hydrogen evolution reaction. International Journal of Hydrogen Energy, 2017, 42, 4165-4173. | 3.8 | 78 |
| 53 | Carbon fiber cloth supported interwoven WS ₂ nanosheets with highly enhanced performances for supercapacitors. Applied Surface Science, 2017, 392, 708-714. | 3.1 | 78 |
| 54 | 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. | 2.8 | 78 |

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|----|--|-----|-----------|
| 55 | 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. | 6.6 | 78 |
| 56 | Embedding RhP _x in N, P Co-doped Carbon Nanoshells Through Synergetic Phosphorization and Pyrolysis for Efficient Hydrogen Evolution. <i>Advanced Functional Materials</i> , 2019, 29, 1901790. | 7.8 | 76 |
| 57 | Activating MoS ₂ /CNs by tuning (001) plane as efficient electrocatalysts for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 2088-2095. | 3.8 | 75 |
| 58 | 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. | 3.8 | 75 |
| 59 | Facile synthesis of V-doped CoP nanoparticles as bifunctional electrocatalyst for efficient water splitting. <i>Journal of Energy Chemistry</i> , 2019, 39, 182-187. | 7.1 | 74 |
| 60 | Enhanced wear resistance and micro-hardness of polystyrene nanocomposites by carbon nanotubes. <i>Materials Chemistry and Physics</i> , 2005, 94, 109-113. | 2.0 | 73 |
| 61 | Crystallographic Structure and Morphology Transformation of MnO ₂ Nanorods as Efficient Electrocatalysts for Oxygen Evolution Reaction. <i>Journal of the Electrochemical Society</i> , 2016, 163, H67-H73. | 1.3 | 72 |
| 62 | Novel mesoporous MnO ₂ for high-rate electrochemical capacitive energy storage. <i>Electrochimica Acta</i> , 2010, 55, 5117-5122. | 2.6 | 68 |
| 63 | 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 |
| 64 | 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. | 3.8 | 68 |
| 65 | 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. | 3.1 | 65 |
| 66 | Performance of polyaniline/multi-walled carbon nanotubes composites as cathode for rechargeable lithium batteries. <i>Materials Chemistry and Physics</i> , 2009, 114, 371-375. | 2.0 | 64 |
| 67 | 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. | 2.6 | 64 |
| 68 | 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 |
| 69 | Recent advances of nonprecious and bifunctional electrocatalysts for overall water splitting. <i>Sustainable Energy and Fuels</i> , 2020, 4, 3211-3228. | 2.5 | 63 |
| 70 | 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. | 3.1 | 61 |
| 71 | Electrochemically activated NiSe-Ni _x S _y hybrid nanorods as efficient electrocatalysts for oxygen evolution reaction. <i>Electrochimica Acta</i> , 2016, 220, 536-544. | 2.6 | 60 |
| 72 | Novel WS ₂ /WO ₃ heterostructured nanosheets as efficient electrocatalyst for hydrogen evolution reaction. <i>Materials Chemistry and Physics</i> , 2017, 197, 123-128. | 2.0 | 59 |

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|----|--|-----|-----------|
| 73 | Microbial synthesis of bimetallic PdPt nanoparticles for catalytic reduction of 4-nitrophenol. <i>Environmental Science and Pollution Research</i> , 2017, 24, 5249-5258. | 2.7 | 59 |
| 74 | Carbon-based transition metal sulfides/selenides nanostructures for electrocatalytic water splitting. <i>Journal of Alloys and Compounds</i> , 2021, 852, 156810. | 2.8 | 58 |
| 75 | 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. | 2.8 | 57 |
| 76 | 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 |
| 77 | 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. | 3.1 | 57 |
| 78 | 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. | 3.2 | 57 |
| 79 | N-doped FeP nanorods derived from Fe-MOFs as bifunctional electrocatalysts for overall water splitting. <i>Applied Surface Science</i> , 2020, 507, 145096. | 3.1 | 57 |
| 80 | 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. | 3.8 | 56 |
| 81 | 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. | 3.8 | 56 |
| 82 | 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. | 1.4 | 55 |
| 83 | 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. | 2.6 | 54 |
| 84 | Surface construction of loose Co(OH) ₂ shell derived from ZIF-67 nanocube for efficient oxygen evolution. <i>Journal of Colloid and Interface Science</i> , 2020, 562, 279-286. | 5.0 | 53 |
| 85 | Controllable synthesis of three dimensional electrodeposited Co-P nanosphere arrays as efficient electrocatalysts for overall water splitting. <i>RSC Advances</i> , 2016, 6, 52761-52771. | 1.7 | 51 |
| 86 | 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. | 1.4 | 50 |
| 87 | 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. | 3.8 | 50 |
| 88 | 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. | 5.0 | 49 |
| 89 | Recent Progress in Decoupled H ₂ and O ₂ Production from Electrolytic Water Splitting. <i>ChemElectroChem</i> , 2019, 6, 2157-2166. | 1.7 | 49 |
| 90 | 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. | 5.0 | 48 |

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|-----|--|-----|-----------|
| 91 | Ionic liquid assisted hydrothermal synthesis of hollow vesicle-like MoS ₂ microspheres. <i>Materials Letters</i> , 2012, 66, 236-238. | 1.3 | 45 |
| 92 | 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. | 1.3 | 45 |
| 93 | 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 |
| 94 | 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. | 6.9 | 44 |
| 95 | Recent development on self-supported transition metal-based catalysts for water electrolysis at large current density. <i>Applied Materials Today</i> , 2021, 22, 100913. | 2.3 | 42 |
| 96 | Controlled synthesis of highly ordered LaFeO ₃ nanowires using a citrate-based sol-gel route. <i>Materials Research Bulletin</i> , 2006, 41, 274-281. | 2.7 | 41 |
| 97 | 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. | 1.3 | 41 |
| 98 | 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. | 3.8 | 40 |
| 99 | 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. | 2.6 | 39 |
| 100 | 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. | 2.2 | 39 |
| 101 | Design and modulation principles of molybdenum carbide-based materials for green hydrogen evolution. <i>Journal of Energy Chemistry</i> , 2020, 48, 398-423. | 7.1 | 39 |
| 102 | Aggregation behavior of long-chain imidazolium ionic liquids in ethylammonium nitrate. <i>Colloid and Polymer Science</i> , 2010, 288, 1225-1232. | 1.0 | 38 |
| 103 | Electrochemical Corrosion Engineering for Ni-Fe Oxides with Superior Activity toward Water Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 42217-42224. | 4.0 | 38 |
| 104 | Electrodeposition of mesoporous manganese dioxide films from lyotropic liquid crystalline phases. <i>Microporous and Mesoporous Materials</i> , 2008, 112, 627-631. | 2.2 | 37 |
| 105 | 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. | 3.2 | 37 |
| 106 | Hierarchical CoSeS nanostructures assisted by Nb doping for enhanced hydrogen evolution reaction. <i>Chinese Journal of Catalysis</i> , 2021, 42, 431-438. | 6.9 | 37 |
| 107 | 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. | 6.5 | 36 |
| 108 | An <i>in situ</i> generated 3D porous nanostructure on 2D nanosheets to boost the oxygen evolution reaction for water-splitting. <i>Nanoscale</i> , 2022, 14, 4566-4572. | 2.8 | 36 |

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|-----|---|------|-----------|
| 109 | Dispersion of carbon nanotubes by carbazole-tailed amphiphilic imidazolium ionic liquids in aqueous solutions. <i>Journal of Colloid and Interface Science</i> , 2011, 356, 190-195. | 5.0 | 35 |
| 110 | Advances and Challenges of Fe-MOFs Based Materials as Electrocatalysts for Water Splitting. <i>Applied Materials Today</i> , 2020, 20, 100692. | 2.3 | 35 |
| 111 | F, P double-doped Fe ₃ O ₄ with abundant defect sites for efficient hydrogen evolution at high current density. <i>Journal of Materials Chemistry A</i> , , . | 5.2 | 35 |
| 112 | Novel Pt nanoclusters/titanium dioxide nanotubes composites for hydrazine oxidation. <i>Materials Chemistry and Physics</i> , 2010, 120, 404-408. | 2.0 | 34 |
| 113 | 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. | 2.8 | 34 |
| 114 | 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 |
| 115 | Recent advances and prospects of MXene-based materials for electrocatalysis and energy storage. <i>Materials Today Physics</i> , 2021, 20, 100469. | 2.9 | 34 |
| 116 | Phosphorus doped two-dimensional CoFe ₂ O ₄ nanobelts decorated with Ru nanoclusters and Co ²⁺ Fe hydroxide as efficient electrocatalysts toward hydrogen generation. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 1847-1855. | 3.0 | 34 |
| 117 | Interface design and composition regulation of cobalt-based electrocatalysts for oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 10547-10572. | 3.8 | 34 |
| 118 | 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. | 2.6 | 33 |
| 119 | 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. | 3.2 | 33 |
| 120 | Template induced sol-gel synthesis of highly ordered LaNiO ₃ nanowires. <i>Journal of Solid State Chemistry</i> , 2005, 178, 1157-1164. | 1.4 | 32 |
| 121 | Heterostructured binary Ni-W sulfides nanosheets as pH-universal electrocatalyst for hydrogen evolution. <i>Applied Surface Science</i> , 2018, 445, 445-453. | 3.1 | 32 |
| 122 | Pt ²⁺ C Interfaces Based on Electronegativity-Functionalized Hollow Carbon Spheres for Highly Efficient Hydrogen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 43561-43569. | 4.0 | 32 |
| 123 | Fe(Co)OOH Dynamically Stable Interface Based on Self-Sacrificial Reconstruction for Long-Term Electrochemical Water Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 17450-17458. | 4.0 | 32 |
| 124 | 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. | 3.8 | 30 |
| 125 | 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. | 2.6 | 30 |
| 126 | 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. | 10.8 | 29 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 127 | Vanadium doped FeP nanoflower with optimized electronic structure for efficient hydrogen evolution. <i>Journal of Colloid and Interface Science</i> , 2022, 615, 445-455. | 5.0 | 29 |
| 128 | Metallic MoO layer promoting high-valence Mo doping into CoP nanowires with ultrahigh activity for hydrogen evolution at 2000 A cm^{-2} . <i>Applied Catalysis B: Environmental</i> , 2022, 309, 121230. | 10.8 | 29 |
| 129 | ZrO ₂ Nanoparticles Synthesized using Ionic Liquid Microemulsion. <i>Journal of Dispersion Science and Technology</i> , 2007, 28, 1030-1033. | 1.3 | 26 |
| 130 | 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. | 1.7 | 26 |
| 131 | Self-sacrificial template method of Mo ₃ O ₁₀ (C ₆ H ₈ N) ₂ ·2H 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. | 2.6 | 26 |
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