Weijia Zhou

List of Publications by Year
in descending order

192 papers	17,439 citations	15466 65 h-index	15218 126 g-index
198 all docs	198 docs citations	198 times ranked	18930 citing authors

#	Article	IF	Citations
1	Synthesis of Fewâ€Layer MoS₂ Nanosheetâ€Coated TiO₂ Nanobelt Heterostructures for Enhanced Photocatalytic Activities. Small, 2013, 9, 140-147.	5.2	1,166
2	Ni3S2 nanorods/Ni foam composite electrode with low overpotential for electrocatalytic oxygen evolution. Energy and Environmental Science, 2013, 6, 2921.	15.6	939
3	Mesoporous N-Doped Carbons Prepared with Thermally Removable Nanoparticle Templates: An Efficient Electrocatalyst for Oxygen Reduction Reaction. Journal of the American Chemical Society, 2015, 137, 5555-5562.	6.6	628
4	Recent developments of carbon-based electrocatalysts for hydrogen evolution reaction. Nano Energy, 2016, 28, 29-43.	8.2	603
5	One-step synthesis of Ni₃S₂nanorod@Ni(OH)₂nanosheet coreâ€“shell nanostructures on a three-dimensional graphene network for high-performance supercapacitors. Energy and Environmental Science, 2013, 6, 2216-2221.	15.6	554
6	Ag₂O/TiO₂Nanobelts Heterostructure with Enhanced Ultraviolet and Visible Photocatalytic Activity. ACS Applied Materials & Interfaces, 2010, 2, 2385-2392.	4.0	489
7	Preparation of Ti 3 C 2 and Ti 2 C MXenes by fluoride salts etching and methane adsorptive properties. Applied Surface Science, 2017, 416, 781-789.	3.1	407
8	Ultrahighâ€Performance Pseudocapacitor Electrodes Based on Transition Metal Phosphide Nanosheets Array via Phosphorization: A General and Effective Approach. Advanced Functional Materials, 2015, 25, 7530-7538.	7.8	359
9	Ultrathin N-Doped Mo₂C Nanosheets with Exposed Active Sites as Efficient Electrocatalyst for Hydrogen Evolution Reactions. ACS Nano, 2017, 11, 12509-12518.	7.3	350
10	N-Doped Carbon-Wrapped Cobalt Nanoparticles on N-Doped Graphene Nanosheets for High-Efficiency Hydrogen Production. Chemistry of Materials, 2015, 27, 2026-2032.	3.2	305
11	Water Splitting: From Electrode to Green Energy System. Nano-Micro Letters, 2020, 12, 131.	14.4	288
12	CoSe2 nanoparticles embedded defective carbon nanotubes derived from MOFs as efficient electrocatalyst for hydrogen evolution reaction. Nano Energy, 2016, 28, 143-150.	8.2	278
13	Biomass-derived nitrogen self-doped porous carbon as effective metal-free catalysts for oxygen reduction reaction. Nanoscale, 2015, 7, 6136-6142.	2.8	269
14	Porous metallic MoO₂-supported MoS₂ nanosheets for enhanced electrocatalytic activity in the hydrogen evolution reaction. Nanoscale, 2015, 7, 5203-5208.	2.8	267
15	Hierarchical spheres constructed by defect-rich MoS 2 /carbon nanosheets for efficient electrocatalytic hydrogen evolution. Nano Energy, 2016, 22, 490-498.	8.2	267
16	Enhanced Photocatalytic Performances of CeO₂/TiO₂ Nanobelt Heterostructures. Small, 2013, 9, 3864-3872.	5.2	262
17	MoO2 nanobelts@nitrogen self-doped MoS2 nanosheets as effective electrocatalysts for hydrogen evolution reaction. Journal of Materials Chemistry A, 2014, 2, 11358.	5.2	262
18	Pt nanoparticles/MoS2 nanosheets/carbon fibers as efficient catalyst for the hydrogen evolution reaction. Electrochimica Acta, 2015, 166, 26-31.	2.6	242

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19	Three-Dimensional Hierarchical Frameworks Based on MoS₂ Nanosheets Self-Assembled on Graphene Oxide for Efficient Electrocatalytic Hydrogen Evolution. ACS Applied Materials & Interfaces, 2014, 6, 21534-21540.	4.0	235
20	One-dimensional single-crystalline Tiâ€“O based nanostructures: properties, synthesis, modifications and applications. Journal of Materials Chemistry, 2010, 20, 5993.	6.7	195
21	Ultrathin MoO 3 nanocrystalsself-assembled on graphene nanosheets via oxygen bonding as supercapacitor electrodes of high capacitance and long cycle life. Nano Energy, 2015, 12, 510-520.	8.2	192
22	One-step synthesis of CdS nanoparticles/MoS 2 nanosheets heterostructure on porous molybdenum sheet for enhanced photocatalytic H 2 evolution. Applied Catalysis B: Environmental, 2017, 210, 290-296.	10.8	192
23	Enhancement of Ethanol Vapor Sensing of TiO₂ Nanobelts by Surface Engineering. ACS Applied Materials & Interfaces, 2010, 2, 3263-3269.	4.0	188
24	MoS₂ nanosheet-coated CoS₂ nanowire arrays on carbon cloth as three-dimensional electrodes for efficient electrocatalytic hydrogen evolution. Journal of Materials Chemistry A, 2015, 3, 22886-22891.	5.2	185
25	Nitrogen doped MoS 2 nanosheets synthesized via a low-temperature process as electrocatalysts with enhanced activity for hydrogen evolution reaction. Journal of Power Sources, 2017, 356, 133-139.	4.0	183
26	Highly Morphologyâ€Controllable and Highly Sensitive Capacitive Tactile Sensor Based on Epidermisâ€Dermisâ€Inspired Interlocked Asymmetricâ€Nanocone Arrays for Detection of Tiny Pressure. Small, 2020, 16, e1904774.	5.2	166
27	Sulfur and nitrogen self-doped carbon nanosheets derived from peanut root nodules as high-efficiency non-metal electrocatalyst for hydrogen evolution reaction. Nano Energy, 2015, 16, 357-366.	8.2	162
28	Coreâ€“Shell Nanocomposites Based on Gold Nanoparticle@Zincâ€“Iron-Embedded Porous Carbons Derived from Metalâ€–Organic Frameworks as Efficient Dual Catalysts for Oxygen Reduction and Hydrogen Evolution Reactions. ACS Catalysis, 2016, 6, 1045-1053.	5.5	151
29	Confined distribution of platinum clusters on MoO2 hexagonal nanosheets with oxygen vacancies as a high-efficiency electrocatalyst for hydrogen evolution reaction. Nano Energy, 2019, 62, 127-135.	8.2	143
30	Nanoheterostructures on TiO2 nanobelts achieved by acid hydrothermal method with enhanced photocatalytic and gas sensitive performance. Journal of Materials Chemistry, 2011, 21, 7937.	6.7	142
31	Metallic Ni3Mo3N Porous Microrods with Abundant Catalytic Sites as Efficient Electrocatalyst for Large Current Density and Superstability of Hydrogen Evolution Reaction and Water Splitting. Applied Catalysis B: Environmental, 2020, 272, 118956.	10.8	138
32	Control synthesis of rutile TiO2 microspheres, nanoflowers, nanotrees and nanobelts via acid-hydrothermal method and their optical properties. CrystEngComm, 2011, 13, 4557.	1.3	130
33	Nitrogen and sulfur co-doped porous carbon derived from human hair as highly efficient metal-free electrocatalysts for hydrogen evolution reactions. Journal of Materials Chemistry A, 2015, 3, 8840-8846.	5.2	130
34	Metal Nickel Foam as an Efficient and Stable Electrode for Hydrogen Evolution Reaction in Acidic Electrolyte under Reasonable Overpotentials. ACS Applied Materials & Interfaces, 2016, 8, 5065-5069.	4.0	122
35	Co-N-doped MoO2 nanowires as efficient electrocatalysts for the oxygen reduction reaction and hydrogen evolution reaction. Nano Energy, 2017, 41, 772-779.	8.2	118
36	WSe₂ 2D pâ€type semiconductorâ€based electronic devices for information technology: Design, preparation, and applications. InformaÄ¤nÃ-MateriÃ¡ly, 2020, 2, 656-697.	8.5	115

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37	Nano-pâ€“n junctions on surface-coarsened TiO2 nanobelts with enhanced photocatalytic activity. Journal of Materials Chemistry, 2011, 21, 5106.	6.7	114
38	Ruâ€“Ru₂PÎ¦NPC and NPC@RuO₂ Synthesized via Environmentâ€Friendly and Solidâ€Phase Phosphating Process by Saccharomycetes as N/P Sources and Carbon Template for Overall Water Splitting in Acid Electrolyte. Advanced Functional Materials, 2019, 29, 1901154.	7.8	112
39	Phase transformation of TiO2 nanobelts and TiO2(B)/anatase interface heterostructure nanobelts with enhanced photocatalytic activity. CrystEngComm, 2011, 13, 6643.	1.3	107
40	Ni-Co-N hybrid porous nanosheets on graphene paper for flexible and editable asymmetric all-solid-state supercapacitors. Nano Energy, 2019, 61, 18-26.	8.2	107
41	N-doped carbon-coated cobalt nanorod arrays supported on a titanium mesh as highly active electrocatalysts for the hydrogen evolution reaction. Journal of Materials Chemistry A, 2015, 3, 1915-1919.	5.2	105
42	Molybdenum carbide on hierarchical porous carbon synthesized from Cu-MoO2 as efficient electrocatalysts for electrochemical hydrogen generation. Nano Energy, 2017, 41, 749-757.	8.2	103
43	Cobaltâ€“Cobalt Phosphide Nanoparticles@Nitrogenâ€Phosphorus Doped Carbon/Graphene Derived from Cobalt Ions Adsorbed Saccharomycete Yeasts as an Efficient, Stable, and Largeâ€Currentâ€Density Electrode for Hydrogen Evolution Reactions. Advanced Functional Materials, 2018, 28, 1801332.	7.8	102
44	Oxygen-incorporated MoX (X: S, Se or P) nanosheets via universal and controlled electrochemical anodic activation for enhanced hydrogen evolution activity. Nano Energy, 2019, 62, 338-347.	8.2	102
45	Suppressing Photoinduced Charge Recombination via the Lorentz Force in a Photocatalytic System. Advanced Science, 2019, 6, 1901244.	5.6	101
46	Construction and Performance Characterization of Î±-Fe₂O₃/rGO Composite for Long-Cycling-Life Supercapacitor Anode. ACS Sustainable Chemistry and Engineering, 2017, 5, 5067-5074.	3.2	98
47	Hierarchical microsphere of MoNi porous nanosheets as electrocatalyst and cocatalyst for hydrogen evolution reaction. Applied Catalysis B: Environmental, 2019, 249, 98-105.	10.8	98
48	Iron oxide embedded titania nanowires â€“ An active and stable electrocatalyst for oxygen evolution in acidic media. Nano Energy, 2018, 45, 118-126.	8.2	95
49	Enhanced Performance of Layered Titanate Nanowire-Based Supercapacitor Electrodes by Nickel Ion Exchange. ACS Applied Materials & Interfaces, 2014, 6, 4578-4586.	4.0	92
50	Flexible wire-like all-carbon supercapacitors based on porous coreâ€“shell carbon fibers. Journal of Materials Chemistry A, 2014, 2, 7250-7255.	5.2	91
51	Mesoporous zirconium phosphate from yeast biotemplate. Journal of Colloid and Interface Science, 2010, 343, 344-349.	5.0	88
52	Bioreduction of Precious Metals by Microorganism: Efficient Gold@Nâ€Doped Carbon Electrocatalysts for the Hydrogen Evolution Reaction. Angewandte Chemie - International Edition, 2016, 55, 8416-8420.	7.2	88
53	Charge redistribution of Ru nanoclusters on Co3O4 porous nanowire via the oxygen regulation for enhanced hydrogen evolution reaction. Nano Energy, 2021, 85, 105940.	8.2	87
54	Preparation of cellulose fiberâ€“TiO2 nanobeltâ€“silver nanoparticle hierarchically structured hybrid paper and its photocatalytic and antibacterial properties. Chemical Engineering Journal, 2013, 228, 272-280.	6.6	85

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55	Tailoring the ruthenium reactive sites on N doped molybdenum carbide nanosheets via the anti-Ostwald ripening as efficient electrocatalyst for hydrogen evolution reaction in alkaline media. Applied Catalysis B: Environmental, 2020, 277, 119236.	10.8	85
56	Ni-Ni3P nanoparticles embedded into N, P-doped carbon on 3D graphene frameworks via in situ phosphatization of saccharomycetes with multifunctional electrodes for electrocatalytic hydrogen production and anodic degradation. Applied Catalysis B: Environmental, 2020, 261, 118147.	10.8	82
57	Laser Synthesis and Microfabrication of Micro/Nanostructured Materials Toward Energy Conversion and Storage. Nano-Micro Letters, 2021, 13, 49.	14.4	82
58	Charge Redistribution Caused by S,P Synergistically Active Ru Endows an Ultrahigh Hydrogen Evolution Activity of Sâ€Doped RuP Embedded in N,P,Sâ€Doped Carbon. Advanced Science, 2020, 7, 2001526.	5.6	77
59	The biomimetic synthesis of zinc phosphate nanoparticles. Dyes and Pigments, 2009, 80, 254-258.	2.0	75
60	Flexible and porous catalyst electrodes constructed by Co nanoparticles@nitrogen-doped graphene films for highly efficient hydrogen evolution. Journal of Materials Chemistry A, 2015, 3, 15962-15968.	5.2	74
61	Electrochemical Flocculation Integrated Hydrogen Evolution Reaction of Fe@Nâ€Doped Carbon Nanotubes on Iron Foam for Ultralow Voltage Electrolysis in Neutral Media. Advanced Science, 2019, 6, 1901458.	5.6	73
62	Phase transformation and enhanced photocatalytic activity of S-doped Ag₂O/TiO₂ heterostructured nanobelts. Nanoscale, 2014, 6, 4698-4704.	2.8	70
63	Theoretical Insight into Highâ€Efficiency Tripleâ€Junction Tandem Solar Cells via the Band Engineering of Antimony Chalcogenides. Solar Rrl, 2021, 5, 2000800.	3.1	70
64	Enhanced electrocatalytic activity of Co@N-doped carbon nanotubes by ultrasmall defect-rich TiO2 nanoparticles for hydrogen evolution reaction. Nano Research, 2017, 10, 2599-2609.	5.8	69
65	Potential of MXene-Based Heterostructures for Energy Conversion and Storage. ACS Energy Letters, 2022, 7, 78-96.	8.8	69
66	Preferential Adsorption of Hydroxide Ions onto Partially Crystalline NiFe-Layered Double Hydroxides Leads to Efficient and Selective OER in Alkaline Seawater. ACS Applied Energy Materials, 2021, 4, 4630-4637.	2.5	67
67	Municipal sludge-derived carbon anode with nitrogen- and oxygen-containing functional groups for high-performance microbial fuel cells. Journal of Power Sources, 2016, 307, 105-111.	4.0	66
68	One-step synthesis of Fe-Ni hydroxide nanosheets derived from bimetallic foam for efficient electrocatalytic oxygen evolution and overall water splitting. Chinese Chemical Letters, 2018, 29, 1875-1878.	4.8	66
69	A Wire-Shaped Supercapacitor in Micrometer Size Based on Fe3O4 Nanosheet Arrays on Fe Wire. Nano-Micro Letters, 2017, 9, 46.	14.4	64
70	Biosynthesis and magnetic properties of mesoporous Fe3O4 composites. Journal of Magnetism and Magnetic Materials, 2009, 321, 1025-1028.	1.0	63
71	Rapid Synthesis of Various Electrocatalysts on Ni Foam Using a Universal and Facile Induction Heating Method for Efficient Water Splitting. Advanced Functional Materials, 2021, 31, 2009580.	7.8	63
72	PdO/TiO₂ and Pd/TiO₂ Heterostructured Nanobelts with Enhanced Photocatalytic Activity. Chemistry - an Asian Journal, 2014, 9, 1648-1654.	1.7	61

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73	Highâ€Performance Electrocatalysts for Oxygen Reduction Based on Nitrogenâ€Doped Porous Carbon from Hydrothermal Treatment of Glucose and Dicyandiamide. ChemElectroChem, 2015, 2, 803-810.	1.7	61
74	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
75	Multi-interface collaboration of graphene cross-linked NiS-NiS2-Ni3S4 polymorph foam towards robust hydrogen evolution in alkaline electrolyte. Nano Research, 2021, 14, 4857-4864.	5.8	61
76	Applications of 2D-Layered Palladium Diselenide and Its van der Waals Heterostructures in Electronics and Optoelectronics. Nano-Micro Letters, 2021, 13, 143.	14.4	61
77	Fast Energy Storage in Two-Dimensional MoO₂ Enabled by Uniform Oriented Tunnels. ACS Nano, 2019, 13, 9091-9099.	7.3	59
78	Oxygen reduction catalyzed by gold nanoclusters supported on carbon nanosheets. Nanoscale, 2016, 8, 6629-6635.	2.8	58
79	Nanopaper based on Ag/TiO2 nanobelts heterostructure for continuous-flow photocatalytic treatment of liquid and gas phase pollutants. Journal of Hazardous Materials, 2011, 197, 19-25.	6.5	56
80	Cu6Sn5@SnO2â€“C nanocomposite with stable core/shell structure as a high reversible anode for Li-ion batteries. Nano Energy, 2015, 18, 232-244.	8.2	56
81	Hierarchical nanoflowers assembled from MoS 2 /polyaniline sandwiched nanosheets for high-performance supercapacitors. Electrochimica Acta, 2017, 243, 98-104.	2.6	56
82	MoSe₂nanosheet/MoO₂nanobelt/carbon nanotube membrane as flexible and multifunctional electrodes for full water splitting in acidic electrolyte. Nanoscale, 2018, 10, 9268-9275.	2.8	56
83	Electromagnetic induction derived micro-electric potential in metal-semiconductor core-shell hybrid nanostructure enhancing charge separation for high performance photocatalysis. Nano Energy, 2020, 71, 104624.	8.2	56
84	Interface dominated high photocatalytic properties of electrostatic self-assembled Ag2O/TiO2 heterostructure. Physical Chemistry Chemical Physics, 2010, 12, 15119.	1.3	55
85	Nitrogen Self-Doped Porous Carbon from Surplus Sludge as Metal-Free Electrocatalysts for Oxygen Reduction Reactions. ACS Applied Materials & Interfaces, 2014, 6, 14911-14918.	4.0	54
86	Grapheneâ€Supported Mesoporous Carbons Prepared with Thermally Removable Templates as Efficient Catalysts for Oxygen Electroreduction. Small, 2016, 12, 1900-1908.	5.2	54
87	Tungsten boride: a 2D multiple Dirac semimetal for the hydrogen evolution reaction. Journal of Materials Chemistry C, 2019, 7, 8868-8873.	2.7	52
88	Superâ€Hybrid Transition Metal Sulfide Nanoarrays of Co₃S₄ Nanosheet/Pâ€Doped WS₂ Nanosheet/Co₉S₈ Nanoparticle with Ptâ€Like Activities for Robust Allâ€pH Hydrogen Evolution. Advanced Functional Materials, 2022, 32, .	7.8	52
89	Multi-interfacial engineering of hierarchical CoNi2S4/WS2/Co9S8 hybrid frameworks for robust all-pH electrocatalytic hydrogen evolution. Applied Catalysis B: Environmental, 2021, 297, 120455.	10.8	50
90	High quality sulfur-doped titanium dioxide nanocatalysts with visible light photocatalytic activity from non-hydrolytic thermolysis synthesis. Inorganic Chemistry Frontiers, 2014, 1, 521-525.	3.0	49

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91	An earth-abundant and multifunctional Ni nanosheets array as electrocatalysts and heat absorption layer integrated thermoelectric device for overall water splitting. Nano Energy, 2019, 56, 563-570.	8.2	48
92	Ruthenium nanoclusters anchored on cobalt phosphide hollow microspheres by green phosphating process for full water splitting in acidic electrolyte. Chinese Chemical Letters, 2021, 32, 511-515.	4.8	46
93	Synthesis of Waferâ€Scale Graphene with Chemical Vapor Deposition for Electronic Device Applications. Advanced Materials Technologies, 2021, 6, 2000744.	3.0	46
94	Graphene Biodevices for Early Disease Diagnosis Based on Biomarker Detection. ACS Sensors, 2021, 6, 3841-3881.	4.0	45
95	Applications of nanogenerators for biomedical engineering and healthcare systems. InformaÄnÃ-MateriÃ¡ly, 2022, 4, .	8.5	45
96	Bioreduction of Precious Metals by Microorganism: Efficient Gold@Nâ€Doped Carbon Electrocatalysts for the Hydrogen Evolution Reaction. Angewandte Chemie, 2016, 128, 8556-8560.	1.6	44
97	N-doped carbon-wrapped Mo C heterophase sheets for high-efficiency electrochemical hydrogen production. Chemical Engineering Journal, 2019, 358, 362-368.	6.6	44
98	Epitaxial Growth of Vertically Aligned Antimony Selenide Nanorod Arrays for Heterostructure Based Selfâ€Powered Photodetector. Advanced Optical Materials, 2022, 10, .	3.6	44
99	Regulated Synthesis of Mo Sheets and Their Derivative MoX Sheets (X: P, S, or C) as Efficient Electrocatalysts for Hydrogen Evolution Reactions. ACS Applied Materials & Interfaces, 2017, 9, 8041-8046.	4.0	43
100	Facile synthesis of MoS₂/reduced graphene oxide composites for efficient removal of Cr(<scp>vi</scp>) from aqueous solutions. RSC Advances, 2017, 7, 24149-24156.	1.7	43
101	Underfocus Laser Induced Ni Nanoparticles Embedded Metallic MoN Microrods as Patterned Electrode for Efficient Overall Water Splitting. Advanced Science, 2022, 9, e2105869.	5.6	43
102	Biomineralization of iron phosphate nanoparticles in yeast cells. Materials Science and Engineering C, 2009, 29, 1348-1350.	3.8	42
103	Active facet regulation of highly aligned molybdenum carbide porous octahedrons via crystal engineering for hydrogen evolution reaction. Nano Energy, 2020, 77, 105056.	8.2	41
104	High ethanol sensitivity of Palladium/TiO2 nanobelt surface heterostructures dominated by enlarged surface area and nano-Schottky junctions. Journal of Colloid and Interface Science, 2012, 388, 144-150.	5.0	40
105	Porous Functionalized Self-Standing Carbon Fiber Paper Electrodes for High-Performance Capacitive Energy Storage. ACS Applied Materials & Interfaces, 2017, 9, 13173-13180.	4.0	40
106	Strong Interaction over Ru/Defectsâ€Rich Aluminium Oxide Boosts Photothermal CO₂ Methanation via Microchannel Flowâ€Type System. Advanced Energy Materials, 2022, 12, .	10.2	40
107	Tailored synthesis of Znâ€“N co-doped porous MoC nanosheets towards efficient hydrogen evolution. Nanoscale, 2019, 11, 1700-1709.	2.8	39
108	Laser patterned and bifunctional Ni@N-doped carbon nanotubes as electrocatalyst and photothermal conversion layer for water splitting driven by thermoelectric device. Applied Catalysis B: Environmental, 2021, 283, 119647.	10.8	39

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109	General Approach of in Situ Etching and Doping To Synthesize a Nickel-Doped M_xO_y (M = Co, Mn, Fe) Nanosheets Array on Nickel Foam as Large-Sized Electrodes for Overall Water Splitting. ACS Applied Energy Materials, 2018, 1, 6279-6287.	2.5	38
110	MoC nanoclusters anchored Ni@Nâ€doped carbon nanotubes coated on carbon fiber as threeâ€dimensional and multifunctional electrodes for flexible supercapacitor and selfâ€heating device. , 2021, 3, 129-141.		38
111	Synthesis of CdS/MoS₂ Nanooctahedrons Heterostructure with a Tight Interface for Enhanced Photocatalytic H₂ Evolution and Biomass Upgrading. Solar Rrl, 2021, 5, 2000415.	3.1	38
112	Biosynthesis of iron phosphate nanopowders. Powder Technology, 2009, 194, 106-108.	2.1	37
113	Metalâ€“Carbon Hybrid Electrocatalysts Derived from Ionâ€Exchange Resin Containing Heavy Metals for Efficient Hydrogen Evolution Reaction. Small, 2016, 12, 2768-2774.	5.2	37
114	N-Doped Mo2C Nanobelts/Graphene Nanosheets Bonded with Hydroxy Nanocellulose as Flexible and Editable Electrode for Hydrogen Evolution Reaction. IScience, 2019, 19, 1090-1100.	1.9	37
115	Nitrified coke wastewater sludge flocs: an attractive precursor for N,S dual-doped graphene-like carbon with ultrahigh capacitance and oxygen reduction performance. Journal of Materials Chemistry A, 2017, 5, 2012-2020.	5.2	36
116	Simultaneous Cr(VI) reduction and electricity generation in Plant-Sediment Microbial Fuel Cells (P-SMFCs): Synthesis of non-bonding Co3O4 nanowires onto cathodes. Environmental Pollution, 2019, 247, 647-657.	3.7	35
117	Puffing quaternary FexCoyNi1-x-yP nanoarray via kinetically controlled alkaline etching for robust overall water splitting. Science China Materials, 2020, 63, 1054-1064.	3.5	35
118	Phosphorusâ€Doped Iron Nitride Nanoparticles Encapsulated by Nitrogenâ€Doped Carbon Nanosheets on Iron Foam In Situ Derived from Saccharomycetes Cerevisiae for Electrocatalytic Overall Water Splitting. Small, 2020, 16, e2001980.	5.2	34
119	Bismuth titanate nanobelts through a low-temperature nanoscale solid-state reaction. Acta Materialia, 2014, 62, 258-266.	3.8	33
120	Electrochemically Exfoliated Chlorineâ€Doped Graphene for Flexible Allâ€Solidâ€State Microâ€Supercapacitors with High Volumetric Energy Density. Advanced Materials, 2022, 34, e2106309.	11.1	33
121	PdO/TiO2 nanobelt heterostructures with high photocatalytic activities based on an exposed highly active facet on ultrathin TiO2 nanobelts. Solar Energy Materials and Solar Cells, 2017, 161, 297-304.	3.0	32
122	TiO2 nanodots anchored on nitrogen-doped carbon nanotubes encapsulated cobalt nanoparticles as photocatalysts with photo-enhanced catalytic activity towards the pollutant removal. Journal of Colloid and Interface Science, 2018, 526, 158-166.	5.0	32
123	Highâ€performance electronics and optoelectronics of monolayer tungsten diselenide full film from preâ€seeding strategy. InformaÄnÃ-MateriÃ¡ly, 2021, 3, 1455-1469.	8.5	32
124	Biomimetic synthesis of mesoporous zinc phosphate nanoparticles. Journal of Alloys and Compounds, 2009, 477, 657-660.	2.8	31
125	Plasmon-enhanced Hydrogen evolution reaction kinetics through the strong coupling of Au-O Bond on Au-MoO2 heterostructure nanosheets. Nano Energy, 2021, 88, 106302.	8.2	31
126	Cathode electrochemically reconstructed V-doped CoO nanosheets for enhanced alkaline hydrogen evolution reaction. Chemical Engineering Journal, 2022, 432, 134331.	6.6	31

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127	Ni and N co-doped MoCx as efficient electrocatalysts for hydrogen evolution reactionÂatÂall-pH values. International Journal of Hydrogen Energy, 2018, 43, 14301-14309.	3.8	30
128	Electromagnetic induction effect induced high-efficiency hot charge generation and transfer in Pd-tipped Au nanorods to boost plasmon-enhanced formic acid dehydrogenation. Nano Energy, 2021, 80, 105543.	8.2	30
129	Biosynthesis of mesoporous organicâ€“inorganic hybrid Fe2O3 with high photocatalytic activity. Materials Science and Engineering C, 2009, 29, 1893-1896.	3.8	29
130	Growth of single-crystalline rutile TiO2 nanorod arrays on GaN light-emitting diodes with enhanced light extraction. Journal of Materials Chemistry, 2012, 22, 3916.	6.7	29
131	One-pot synthesis of graphene/carbon nanospheres/graphene sandwich supported Pt3Ni nanoparticles with enhanced electrocatalytic activity in methanol oxidation. International Journal of Hydrogen Energy, 2015, 40, 5106-5114.	3.8	29
132	A new strategy to tailor the structure of sustainable 3D hierarchical porous N-self-doped carbons from renewable biomass for high-performance supercapacitors and CO₂ capture. RSC Advances, 2016, 6, 34261-34270.	1.7	29
133	Non-thermal radiation heating synthesis of nanomaterials. Science Bulletin, 2021, 66, 386-406.	4.3	29
134	Nanostructured Black Aluminum Prepared by Laser Direct Writing as a High-Performance Plasmonic Absorber for Photothermal/Electric Conversion. ACS Applied Materials & Interfaces, 2021, 13, 4305-4315.	4.0	29
135	Synthesis of mesoporous structured hydroxyapatite particles using yeast cells as the template. Journal of Materials Science: Materials in Medicine, 2010, 21, 155-159.	1.7	28
136	Applications of Carbon Nanotubes in the Internet of Things Era. Nano-Micro Letters, 2021, 13, 191.	14.4	28
137	Commercially Available CuO Catalyzed Hydrogenation of Nitroarenes Using Ammonia Borane as a Hydrogen Source. ChemCatChem, 2020, 12, 2426-2430.	1.8	27
138	Enabling a highly reversible conversion reaction in a lithiated nano-SnO₂ film coated with Al₂O₃ by atomic layer deposition. Journal of Materials Chemistry A, 2018, 6, 4374-4385.	5.2	26
139	One-Step Sublimation and Epitaxial Growth of CdS-Cd Heterogeneous Nanoparticles on S-Doped MoO₂ Nanosheets for Efficient Visible Light-Driven Photocatalytic H₂ Generation. ACS Applied Materials & Interfaces, 2020, 12, 2362-2369.	4.0	26
140	Addressable surface engineering for N-doped WS₂ nanosheet arrays with abundant active sites and the optimal local electronic structure for enhanced hydrogen evolution reaction. Nanoscale, 2020, 12, 22541-22550.	2.8	26
141	Laser-fabricated channeled Cu6Sn5/Sn as electrocatalyst and gas diffusion electrode for efficient CO2 electroreduction to formate. Applied Catalysis B: Environmental, 2022, 307, 120991.	10.8	26
142	Chromium phosphide nanoparticles embedded in porous nitrogenâ€phosphorusâ€doped carbon as efficient electrocatalysts for a nitrogen reduction reaction. , 2022, 4, 237-245.		26
143	Multifunctional electrocatalyst of NiCo-NiCoP nanoparticles embedded into P-doped carbon nanotubes for Energy-Saving hydrogen production and upgraded conversion of formaldehyde. Chemical Engineering Journal, 2021, 426, 129214.	6.6	25
144	Porous molybdenum carbide microspheres as efficient binder-free electrocatalysts for suspended hydrogen evolution reaction. International Journal of Hydrogen Energy, 2017, 42, 6448-6454.	3.8	24

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145	Integrating NiMoO wafer as a heterogeneous â€˜turboâ€™ for engineering robust Ru-based electrocatalyst for overall water splitting. Chemical Engineering Journal, 2021, 420, 127686.	6.6	24
146	Biomineralization of large hydroxyapatite particles using ovalbumin as biosurfactant. Materials Letters, 2008, 62, 3603-3605.	1.3	23
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