

Abdullah M Asiri

List of Publications by Year in descending order

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papers

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1614

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26426
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#	ARTICLE	IF	CITATIONS
1	Self-Supported Nanoporous Cobalt Phosphide Nanowire Arrays: An Efficient 3D Hydrogen-Evolving Cathode over the Wide Range of pH 0–14. <i>Journal of the American Chemical Society</i> , 2014, 136, 7587-7590.	13.7	2,208
2	Recent Progress in Cobalt-Based Heterogeneous Catalysts for Electrochemical Water Splitting. <i>Advanced Materials</i> , 2016, 28, 215-230.	21.0	2,083
3	Hydrothermal Treatment of Grass: A Low-Cost, Green Route to Nitrogen-Doped, Carbon-Rich, Photoluminescent Polymer Nanodots as an Effective Fluorescent Sensing Platform for Label-Free Detection of Cu(II) Ions. <i>Advanced Materials</i> , 2012, 24, 2037-2041.	21.0	1,345
4	Economical, Green Synthesis of Fluorescent Carbon Nanoparticles and Their Use as Probes for Sensitive and Selective Detection of Mercury(II) Ions. <i>Analytical Chemistry</i> , 2012, 84, 5351-5357.	6.5	986
5	Carbon Nanotubes Decorated with CoP Nanocrystals: A Highly Active Non-Noble-Metal Nanohybrid Electrocatalyst for Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 6710-6714.	13.8	939
6	Metal-Organic Framework (MOF) Compounds: Photocatalysts for Redox Reactions and Solar Fuel Production. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 5414-5445.	13.8	888
7	Fe-Doped CoP Nanoarray: A Monolithic Multifunctional Catalyst for Highly Efficient Hydrogen Generation. <i>Advanced Materials</i> , 2017, 29, 1602441.	21.0	834
8	A Cost-Effective 3D Hydrogen Evolution Cathode with High Catalytic Activity: FeP Nanowire Array as the Active Phase. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12855-12859.	13.8	816
9	Self-Supported Cu ₃ P Nanowire Arrays as an Integrated High-Performance Three-Dimensional Cathode for Generating Hydrogen from Water. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 9577-9581.	13.8	784
10	Closely Interconnected Network of Molybdenum Phosphide Nanoparticles: A Highly Efficient Electrocatalyst for Generating Hydrogen from Water. <i>Advanced Materials</i> , 2014, 26, 5702-5707.	21.0	783
11	Electrochemical Ammonia Synthesis via Nitrogen Reduction Reaction on a MoS ₂ Catalyst: Theoretical and Experimental Studies. <i>Advanced Materials</i> , 2018, 30, e1800191.	21.0	697
12	Energy-Saving Electrolytic Hydrogen Generation: Ni ₂ P Nanoarray as a High-Performance Non-Noble-Metal Electrocatalyst. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 842-846.	13.8	668
13	Ternary Fe _x Co _{1-x} P Nanowire Array as a Robust Hydrogen Evolution Reaction Electrocatalyst with Pt-like Activity: Experimental and Theoretical Insight. <i>Nano Letters</i> , 2016, 16, 6617-6621.	9.1	618
14	Enhanced Electrocatalysis for Energy-Efficient Hydrogen Production over CoP Catalyst with Nonelectroactive Zn as a Promoter. <i>Advanced Energy Materials</i> , 2017, 7, 1700020.	19.5	519
15	Au-Nanoparticle-Loaded Graphitic Carbon Nitride Nanosheets: Green Photocatalytic Synthesis and Application toward the Degradation of Organic Pollutants. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 6815-6819.	8.0	493
16	Boosted Electrocatalytic N ₂ Reduction to NH ₃ by Defect-Rich MoS ₂ Nanoflower. <i>Advanced Energy Materials</i> , 2018, 8, 1801357.	19.5	482
17	Mn Doping of CoP Nanosheets Array: An Efficient Electrocatalyst for Hydrogen Evolution Reaction with Enhanced Activity at All pH Values. <i>ACS Catalysis</i> , 2017, 7, 98-102.	11.2	461
18	Ultrathin Graphitic Carbon Nitride Nanosheet: A Highly Efficient Fluorosensor for Rapid, Ultrasensitive Detection of Cu ²⁺ . <i>Analytical Chemistry</i> , 2013, 85, 5595-5599.	6.5	448

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19	Self-Supported FeP Nanorod Arrays: A Cost-Effective 3D Hydrogen Evolution Cathode with High Catalytic Activity. <i>ACS Catalysis</i> , 2014, 4, 4065-4069.	11.2	419
20	NiCo ₂ S ₄ nanowires array as an efficient bifunctional electrocatalyst for full water splitting with superior activity. <i>Nanoscale</i> , 2015, 7, 15122-15126.	5.6	390
21	Electrodeposited Co-doped NiSe ₂ nanoparticles film: a good electrocatalyst for efficient water splitting. <i>Nanoscale</i> , 2016, 8, 3911-3915.	5.6	367
22	High-Performance Electrolytic Oxygen Evolution in Neutral Media Catalyzed by a Cobalt Phosphate Nanoarray. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 1064-1068.	13.8	348
23	Self-Standing CoP Nanosheets Array: A Three-Dimensional Bifunctional Catalyst Electrode for Overall Water Splitting in both Neutral and Alkaline Media. <i>ChemElectroChem</i> , 2017, 4, 1840-1845.	3.4	345
24	Mo ₂ C Nanoparticles Decorated Graphitic Carbon Sheets: Biopolymer-Derived Solid-State Synthesis and Application as an Efficient Electrocatalyst for Hydrogen Generation. <i>ACS Catalysis</i> , 2014, 4, 2658-2661.	11.2	343
25	An amorphous CoSe film behaves as an active and stable full water-splitting electrocatalyst under strongly alkaline conditions. <i>Chemical Communications</i> , 2015, 51, 16683-16686.	4.1	336
26	Ultrathin graphitic carbon nitride nanosheets: a low-cost, green, and highly efficient electrocatalyst toward the reduction of hydrogen peroxide and its glucose biosensing application. <i>Nanoscale</i> , 2013, 5, 8921.	5.6	321
27	A Zn-doped Ni ₃ S ₂ nanosheet array as a high-performance electrochemical water oxidation catalyst in alkaline solution. <i>Chemical Communications</i> , 2017, 53, 12446-12449.	4.1	315
28	A Mn-doped Ni ₂ P nanosheet array: an efficient and durable hydrogen evolution reaction electrocatalyst in alkaline media. <i>Chemical Communications</i> , 2017, 53, 11048-11051.	4.1	309
29	A Fe-doped Ni ₃ S ₂ particle film as a high-efficiency robust oxygen evolution electrode with very high current density. <i>Journal of Materials Chemistry A</i> , 2015, 3, 23207-23212.	10.3	308
30	Ultrathin graphitic carbon nitride nanosheets: a novel peroxidase mimetic, Fe doping-mediated catalytic performance enhancement and application to rapid, highly sensitive optical detection of glucose. <i>Nanoscale</i> , 2013, 5, 11604.	5.6	300
31	High-performance urea electrolysis towards less energy-intensive electrochemical hydrogen production using a bifunctional catalyst electrode. <i>Journal of Materials Chemistry A</i> , 2017, 5, 3208-3213.	10.3	295
32	Iron-based phosphides as electrocatalysts for the hydrogen evolution reaction: recent advances and future prospects. <i>Journal of Materials Chemistry A</i> , 2020, 8, 19729-19745.	10.3	295
33	Co(OH) ₂ Nanoparticle-Encapsulating Conductive Nanowires Array: Room-Temperature Electrochemical Preparation for High-Performance Water Oxidation Electrocatalysis. <i>Advanced Materials</i> , 2018, 30, 1705366.	21.0	294
34	In Situ Derived Co ₂ B Nanoarray: A High-Efficiency and Durable 3D Bifunctional Electrocatalyst for Overall Alkaline Water Splitting. <i>Small</i> , 2017, 13, 1700805.	10.0	293
35	High-Performance N ₂ -to-NH ₃ Conversion Electrocatalyzed by Mo ₂ C Nanorod. <i>ACS Central Science</i> , 2019, 5, 116-121.	11.3	292
36	Cobalt nitride nanowire array as an efficient electrochemical sensor for glucose and H ₂ O ₂ detection. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 1254-1261.	7.8	287

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37	CoP Nanosheet Arrays Supported on a Ti Plate: An Efficient Cathode for Electrochemical Hydrogen Evolution. <i>Chemistry of Materials</i> , 2014, 26, 4326-4329.	6.7	285
38	Tungsten Phosphide Nanorod Arrays Directly Grown on Carbon Cloth: A Highly Efficient and Stable Hydrogen Evolution Cathode at All pH Values. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 21874-21879.	8.0	279
39	Ni ₂ P nanoparticle films supported on a Ti plate as an efficient hydrogen evolution cathode. <i>Nanoscale</i> , 2014, 6, 11031-11034.	5.6	277
40	Co-Doped CuO Nanoarray: An Efficient Oxygen Evolution Reaction Electrocatalyst with Enhanced Activity. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 2883-2887.	6.7	277
41	Al-Doped CoP nanoarray: a durable water-splitting electrocatalyst with superhigh activity. <i>Nanoscale</i> , 2017, 9, 4793-4800.	5.6	268
42	Design and Application of Foams for Electrocatalysis. <i>ChemCatChem</i> , 2017, 9, 1721-1743.	3.7	245
43	Efficient Electrochemical Water Splitting Catalyzed by Electrodeposited Nickel Diselenide Nanoparticles Based Film. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 4718-4723.	8.0	239
44	Three-Dimensional Porous Supramolecular Architecture from Ultrathin g-C ₃ N ₄ Nanosheets and Reduced Graphene Oxide: Solution Self-Assembly Construction and Application as a Highly Efficient Metal-Free Electrocatalyst for Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 1011-1017.	8.0	235
45	Ultrathin Graphitic C ₃ N ₄ Nanosheets/Graphene Composites: Efficient Organic Electrocatalyst for Oxygen Evolution Reaction. <i>ChemSusChem</i> , 2014, 7, 2125-2130.	6.8	232
46	High-Efficiency Electrochemical Hydrogen Evolution Catalyzed by Tungsten Phosphide Submicroparticles. <i>ACS Catalysis</i> , 2015, 5, 145-149.	11.2	231
47	CoP nanostructures with different morphologies: synthesis, characterization and a study of their electrocatalytic performance toward the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2014, 2, 14634.	10.3	227
48	Microwave-assisted rapid green synthesis of photoluminescent carbon nanodots from flour and their applications for sensitive and selective detection of mercury(II) ions. <i>Sensors and Actuators B: Chemical</i> , 2013, 184, 156-162.	7.8	226
49	A porous Ni ₃ N nanosheet array as a high-performance non-noble-metal catalyst for urea-assisted electrochemical hydrogen production. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 1120-1124.	6.0	225
50	Self-supported NiMo hollow nanorod array: an efficient 3D bifunctional catalytic electrode for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2015, 3, 20056-20059.	10.3	218
51	Selective phosphidation: an effective strategy toward CoP/CeO ₂ interface engineering for superior alkaline hydrogen evolution electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2018, 6, 1985-1990.	10.3	212
52	Efficient Electrochemical N ₂ Reduction to NH ₃ on MoN Nanosheets Array under Ambient Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 9550-9554.	6.7	210
53	Three-Dimensional Ni ₂ P Nanoarray: An Efficient Catalyst Electrode for Sensitive and Selective Nonenzymatic Glucose Sensing with High Specificity. <i>Analytical Chemistry</i> , 2016, 88, 7885-7889.	6.5	209
54	A self-standing nanoporous MoP ₂ nanosheet array: an advanced pH-universal catalytic electrode for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7169-7173.	10.3	204

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55	MnO ₂ -CoP ₃ nanowires array: An efficient electrocatalyst for alkaline oxygen evolution reaction with enhanced activity. <i>Electrochemistry Communications</i> , 2018, 86, 161-165.	4.7	202
56	Mixed-metal or mixed-linker metal organic frameworks as heterogeneous catalysts. <i>Catalysis Science and Technology</i> , 2016, 6, 5238-5261.	4.1	198
57	Fabrication of hierarchical CoP nanosheet@microwire arrays via space-confined phosphidation toward high-efficiency water oxidation electrocatalysis under alkaline conditions. <i>Nanoscale</i> , 2018, 10, 7941-7945.	5.6	197
58	In situ formation of a 3D core/shell structured Ni ₃ N@Ni-Bi nanosheet array: an efficient non-noble-metal bifunctional electrocatalyst toward full water splitting under near-neutral conditions. <i>Journal of Materials Chemistry A</i> , 2017, 5, 7806-7810.	10.3	196
59	Green, low-cost synthesis of photoluminescent carbon dots by hydrothermal treatment of willow bark and their application as an effective photocatalyst for fabricating Au nanoparticles-reduced graphene oxide nanocomposites for glucose detection. <i>Catalysis Science and Technology</i> , 2013, 3, 1027.	4.1	193
60	Fe-Doped Ni ₂ P Nanosheet Array for High-Efficiency Electrochemical Water Oxidation. <i>Inorganic Chemistry</i> , 2017, 56, 1041-1044.	4.0	193
61	P-Doped Ag Nanoparticles Embedded in N-Doped Carbon Nanoflake: An Efficient Electrocatalyst for the Hydrogen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 4499-4503.	6.7	193
62	A hierarchical CuO@NiCo layered double hydroxide core-shell nanoarray as an efficient electrocatalyst for the oxygen evolution reaction. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 3049-3054.	6.0	191
63	Activated carbon nanotubes: a highly-active metal-free electrocatalyst for hydrogen evolution reaction. <i>Chemical Communications</i> , 2014, 50, 9340-9342.	4.1	187
64	Green synthesis of plant supported Cu Ag and Cu Ni bimetallic nanoparticles in the reduction of nitrophenols and organic dyes for water treatment. <i>Journal of Molecular Liquids</i> , 2018, 260, 78-91.	4.9	187
65	NiS ₂ nanosheets array grown on carbon cloth as an efficient 3D hydrogen evolution cathode. <i>Electrochimica Acta</i> , 2015, 153, 508-514.	5.2	185
66	Iron-doped nickel disulfide nanoarray: A highly efficient and stable electrocatalyst for water splitting. <i>Nano Research</i> , 2016, 9, 3346-3354.	10.4	184
67	Metal Organic Frameworks as Versatile Hosts of Au Nanoparticles in Heterogeneous Catalysis. <i>ACS Catalysis</i> , 2017, 7, 2896-2919.	11.2	184
68	Engineering UiO-66 Metal Organic Framework for Heterogeneous Catalysis. <i>ChemCatChem</i> , 2019, 11, 899-923.	3.7	182
69	CoSe ₂ Nanowires Array as a 3D Electrode for Highly Efficient Electrochemical Hydrogen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 3877-3881.	8.0	174
70	An amorphous Co-carbonate-hydroxide nanowire array for efficient and durable oxygen evolution reaction in carbonate electrolytes. <i>Nanoscale</i> , 2017, 9, 16612-16615.	5.6	173
71	High-Efficiency Electrosynthesis of Ammonia with High Selectivity under Ambient Conditions Enabled by VN Nanosheet Array. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 9545-9549.	6.7	170
72	A Cost-Effective 3D Hydrogen Evolution Cathode with High Catalytic Activity: FeP Nanowire Array as the Active Phase. <i>Angewandte Chemie</i> , 2014, 126, 13069-13073.	2.0	168

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73	Ni ₃ S ₂ nanosheets array supported on Ni foam: A novel efficient three-dimensional hydrogen-evolving electrocatalyst in both neutral and basic solutions. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 4727-4732.	7.1	167
74	FeP Nanoparticles Film Grown on Carbon Cloth: An Ultrahighly Active 3D Hydrogen Evolution Cathode in Both Acidic and Neutral Solutions. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 20579-20584.	8.0	166
75	Enhanced electrooxidation of urea using NiMoO ₄ ·xH ₂ O nanosheet arrays on Ni foam as anode. <i>Electrochimica Acta</i> , 2015, 153, 456-460.	5.2	159
76	Recent Advances in 1D Electrospun Nanocatalysts for Electrochemical Water Splitting. <i>Small Structures</i> , 2021, 2, 2000048.	12.0	157
77	Self-supported CoP nanosheet arrays: a non-precious metal catalyst for efficient hydrogen generation from alkaline NaBH ₄ solution. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13053-13057.	10.3	154
78	Nickel promoted cobalt disulfide nanowire array supported on carbon cloth: An efficient and stable bifunctional electrocatalyst for full water splitting. <i>Electrochemistry Communications</i> , 2016, 63, 60-64.	4.7	154
79	Acidically oxidized carbon cloth: a novel metal-free oxygen evolution electrode with high catalytic activity. <i>Chemical Communications</i> , 2015, 51, 1616-1619.	4.1	153
80	Sulfur-doped graphene for efficient electrocatalytic N ₂ -to-NH ₃ fixation. <i>Chemical Communications</i> , 2019, 55, 3371-3374.	4.1	152
81	Template-assisted synthesis of CoP nanotubes to efficiently catalyze hydrogen-evolving reaction. <i>Journal of Materials Chemistry A</i> , 2014, 2, 14812-14816.	10.3	147
82	3D macroporous MoS ₂ thin film: in situ hydrothermal preparation and application as a highly active hydrogen evolution electrocatalyst at all pH values. <i>Electrochimica Acta</i> , 2015, 168, 133-138.	5.2	147
83	Metal-organic frameworks for solar energy conversion by photoredox catalysis. <i>Coordination Chemistry Reviews</i> , 2018, 373, 83-115.	18.8	146
84	Recent advances in emerging 2D nanomaterials for biosensing and bioimaging applications. <i>Materials Today</i> , 2018, 21, 164-177.	14.2	145
85	Ni ₃ Se ₂ film as a non-precious metal bifunctional electrocatalyst for efficient water splitting. <i>Catalysis Science and Technology</i> , 2015, 5, 4954-4958.	4.1	144
86	Copper-Nitride Nanowires Array: An Efficient Dual-Functional Catalyst Electrode for Sensitive and Selective Non-Enzymatic Glucose and Hydrogen Peroxide Sensing. <i>Chemistry - A European Journal</i> , 2017, 23, 4986-4989.	3.3	140
87	Energy-Saving Electrolytic Hydrogen Generation: Ni ₂ P Nanoarray as a High-Performance Non-Noble-Metal Electrocatalyst. <i>Angewandte Chemie</i> , 2017, 129, 860-864.	2.0	140
88	Integrating natural biomass electro-oxidation and hydrogen evolution: using a porous Fe-doped CoP nanosheet array as a bifunctional catalyst. <i>Chemical Communications</i> , 2017, 53, 5710-5713.	4.1	138
89	Iron-group electrocatalysts for ambient nitrogen reduction reaction in aqueous media. <i>Nano Research</i> , 2021, 14, 555-569.	10.4	137
90	Characterization of a novel natural cellulosic fiber from <i>Calotropis gigantea</i> fruit bunch for ecofriendly polymer composites. <i>International Journal of Biological Macromolecules</i> , 2020, 150, 793-801.	7.5	135

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91	NiCoP Nanoarray: A Superior Pseudocapacitor Electrode with High Areal Capacitance. Chemistry - A European Journal, 2017, 23, 4435-4441.	3.3	134
92	Cu(OH) ₂ @CoCO ₃ (OH) ₂ ·nH ₂ O Core-Shell Heterostructure Nanowire Array: An Efficient 3D Anodic Catalyst for Oxygen Evolution and Methanol Electrooxidation. Small, 2017, 13, 1602755.	10.0	133
93	Three-Dimensional Structures of MoS ₂ @Ni Core/Shell Nanosheets Array toward Synergetic Electrocatalytic Water Splitting. ACS Applied Materials & Interfaces, 2016, 8, 14521-14526.	8.0	132
94	Highly Selective Electrochemical Reduction of CO ₂ to Alcohols on an FeP Nanoarray. Angewandte Chemie - International Edition, 2020, 59, 758-762.	13.8	132
95	Metal-Organic Framework Enhances Aggregation-Induced Fluorescence of Chlortetracycline and the Application for Detection. Analytical Chemistry, 2019, 91, 5913-5921.	6.5	130
96	An amorphous FeMoS ₄ nanorod array toward efficient hydrogen evolution electrocatalysis under neutral conditions. Chemical Communications, 2017, 53, 9000-9003.	4.1	124
97	An Fe(TCNQ) ₂ nanowire array on Fe foil: an efficient non-noble-metal catalyst for the oxygen evolution reaction in alkaline media. Chemical Communications, 2018, 54, 2300-2303.	4.1	120
98	Hexagonal boron nitride nanosheet for effective ambient N ₂ fixation to NH ₃ . Nano Research, 2019, 12, 919-924.	10.4	120
99	Catalysis by metal-organic frameworks in water. Chemical Communications, 2014, 50, 12800-12814.	4.1	117
100	Fe ₃ N@Co ₂ N Nanowires Array: A Non-Noble-Metal Bifunctional Catalyst Electrode for High-Performance Glucose Oxidation and H ₂ O ₂ Reduction toward Non-Enzymatic Sensing Applications. Chemistry - A European Journal, 2017, 23, 5214-5218.	3.3	117
101	Tungsten nitride nanorods array grown on carbon cloth as an efficient hydrogen evolution cathode at all pH values. Electrochimica Acta, 2015, 154, 345-351.	5.2	116
102	Highly-active oxygen evolution electrocatalyzed by a Fe-doped NiSe nanoflake array electrode. Chemical Communications, 2016, 52, 4529-4532.	4.1	116
103	A self-supported NiMoS ₄ nanoarray as an efficient 3D cathode for the alkaline hydrogen evolution reaction. Journal of Materials Chemistry A, 2017, 5, 16585-16589.	10.3	114
104	Graphitic carbon nitride nanosheets: one-step, high-yield synthesis and application for Cu ²⁺ detection. Analyst, The, 2014, 139, 5065-5068.	3.5	111
105	One-step electrodeposition of Ni-Co-S nanosheets film as a bifunctional electrocatalyst for efficient water splitting. International Journal of Hydrogen Energy, 2016, 41, 7264-7269.	7.1	107
106	An MnO ₂ @Ti ₃ C ₂ T _x MXene nanohybrid: an efficient and durable electrocatalyst toward artificial N ₂ fixation to NH ₃ under ambient conditions. Journal of Materials Chemistry A, 2019, 7, 18823-18827.	10.3	107
107	Sulfur dots-graphene nanohybrid: a metal-free electrocatalyst for efficient N ₂ -to-NH ₃ fixation under ambient conditions. Chemical Communications, 2019, 55, 3152-3155.	4.1	106
108	Interconnected urchin-like cobalt phosphide microspheres film for highly efficient electrochemical hydrogen evolution in both acidic and basic media. Journal of Materials Chemistry A, 2016, 4, 10114-10117.	10.3	103

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109	Cu/(Cu(OH) ₂ -CuO) core/shell nanorods array: in-situ growth and application as an efficient 3D oxygen evolution anode. <i>Electrochimica Acta</i> , 2015, 163, 102-106.	5.2	101
110	Energy-efficient electrolytic hydrogen generation using a Cu ₃ P nanoarray as a bifunctional catalyst for hydrazine oxidation and water reduction. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 420-423.	6.0	101
111	Superior hydrogen evolution electrocatalysis enabled by CoP nanowire array on graphite felt. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 3580-3586.	7.1	101
112	Zn _{0.76} Co _{0.24} S/CoS ₂ nanowires array for efficient electrochemical splitting of water. <i>Electrochimica Acta</i> , 2016, 190, 360-364.	5.2	99
113	Ternary NiCoP nanosheet array on a Ti mesh: a high-performance electrochemical sensor for glucose detection. <i>Chemical Communications</i> , 2016, 52, 14438-14441.	4.1	98
114	An Fe-MOF nanosheet array with superior activity towards the alkaline oxygen evolution reaction. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 1405-1408.	6.0	97
115	Hierarchical CuO@ZnCo LDH heterostructured nanowire arrays toward enhanced water oxidation electrocatalysis. <i>Nanoscale</i> , 2020, 12, 5359-5362.	5.6	97
116	Magnetron sputtering enabled sustainable synthesis of nanomaterials for energy electrocatalysis. <i>Green Chemistry</i> , 2021, 23, 2834-2867.	9.0	96
117	Bimetallic Nickel-Substituted Cobalt-Borate Nanowire Array: An Earth-Abundant Water Oxidation Electrocatalyst with Superior Activity and Durability at Near Neutral pH. <i>Small</i> , 2017, 13, 1700394.	10.0	95
118	Cobalt phosphide nanowire array as an effective electrocatalyst for non-enzymatic glucose sensing. <i>Journal of Materials Chemistry B</i> , 2017, 5, 1901-1904.	5.8	94
119	Tunable nature of metal organic frameworks as heterogeneous solid catalysts for alcohol oxidation. <i>Chemical Communications</i> , 2017, 53, 10851-10869.	4.1	94
120	Mn ₃ O ₄ nanoparticles@reduced graphene oxide composite: An efficient electrocatalyst for artificial N ₂ fixation to NH ₃ at ambient conditions. <i>Nano Research</i> , 2019, 12, 1093-1098.	10.4	93
121	Cobalt phosphide nanoparticles film growth on carbon cloth: A high-performance cathode for electrochemical hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 16806-16811.	7.1	90
122	Three-dimensional interconnected network of nanoporous CoP nanowires as an efficient hydrogen evolution cathode. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 16909.	2.8	90
123	A Ni ₂ P nanosheet array integrated on 3D Ni foam: an efficient, robust and reusable monolithic catalyst for the hydrolytic dehydrogenation of ammonia borane toward on-demand hydrogen generation. <i>Journal of Materials Chemistry A</i> , 2016, 4, 12407-12410.	10.3	90
124	Spinel LiMn ₂ O ₄ Nanofiber: An Efficient Electrocatalyst for N ₂ Reduction to NH ₃ under Ambient Conditions. <i>Inorganic Chemistry</i> , 2019, 58, 9597-9601.	4.0	90
125	CoP nanoarray: a robust non-noble-metal hydrogen-generating catalyst toward effective hydrolysis of ammonia borane. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 659-662.	6.0	88
126	Amorphous Ni-B alloy nanoparticle film on Ni foam: rapid alternately dipping deposition for efficient overall water splitting. <i>Nanotechnology</i> , 2016, 27, 12LT01.	2.6	86

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127	Rapid, sensitive, and selective fluorescent DNA detection using iron-based metal-organic framework nanorods: Synergies of the metal center and organic linker. <i>Biosensors and Bioelectronics</i> , 2015, 71, 1-6.	10.1	83
128	Alkylthiol surface engineering: an effective strategy toward enhanced electrocatalytic N ₂ -to-NH ₃ fixation by a CoP nanoarray. <i>Journal of Materials Chemistry A</i> , 2021, 9, 13861-13866.	10.3	83
129	In situ electrochemical surface derivation of cobalt phosphate from a Co(CO ₃) _{0.5} (OH)·0.11H ₂ O nanoarray for efficient water oxidation in neutral aqueous solution. <i>Nanoscale</i> , 2017, 9, 3752-3756.	5.6	82
130	Ultrathin graphitic C ₃ N ₄ nanofibers: Hydrolysis-driven top-down rapid synthesis and application as a novel fluorosensor for rapid, sensitive, and selective detection of Fe ³⁺ . <i>Sensors and Actuators B: Chemical</i> , 2015, 216, 453-460.	7.8	81
131	Electrodeposited Ni-P Alloy Nanoparticle Films for Efficiently Catalyzing Hydrogen and Oxygen Evolution Reactions. <i>ChemNanoMat</i> , 2015, 1, 558-561.	2.8	80
132	Cellulose Derived Graphene/Polyaniline Nanocomposite Anode for Energy Generation and Bioremediation of Toxic Metals via Benthic Microbial Fuel Cells. <i>Polymers</i> , 2021, 13, 135.	4.5	80
133	Nitrogen-doped carbon nanotube supported iron phosphide nanocomposites for highly active electrocatalysis of the hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2014, 149, 324-329.	5.2	79
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