

Xuping Sun

List of Publications by Year in descending order

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618
papers

73,843
citations

279

140
h-index

1044

234
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625
all docs

625
docs citations

625
times ranked

34832
citing authors

#	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.	6.6	2,208
2	Recent Progress in Cobalt-Based Heterogeneous Catalysts for Electrochemical Water Splitting. <i>Advanced Materials</i> , 2016, 28, 215-230.	11.1	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.	11.1	1,345
4	NiSe Nanowire Film Supported on Nickel Foam: An Efficient and Stable 3D Bifunctional Electrode for Full Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9351-9355.	7.2	1,242
5	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.	3.2	986
6	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.	7.2	939
7	Fe-Doped CoP Nanoarray: A Monolithic Multifunctional Catalyst for Highly Efficient Hydrogen Generation. <i>Advanced Materials</i> , 2017, 29, 1602441.	11.1	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.	7.2	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.	7.2	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.	11.1	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.	11.1	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.	7.2	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.	4.5	618
14	High-performance artificial nitrogen fixation at ambient conditions using a metal-free electrocatalyst. <i>Nature Communications</i> , 2018, 9, 3485.	5.8	615
15	Enhanced Electrocatalysis for Energy-Efficient Hydrogen Production over CoP Catalyst with Nonelectroactive Zn as a Promoter. <i>Advanced Energy Materials</i> , 2017, 7, 1700020.	10.2	519
16	Phosphorus-Doped Co ₃ O ₄ Nanowire Array: A Highly Efficient Bifunctional Electrocatalyst for Overall Water Splitting. <i>ACS Catalysis</i> , 2018, 8, 2236-2241.	5.5	517
17	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.	4.0	493
18	Boosted Electrocatalytic N ₂ Reduction to NH ₃ by Defect-Rich MoS ₂ Nanoflower. <i>Advanced Energy Materials</i> , 2018, 8, 1801357.	10.2	482

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19	Mn Doping of CoP Nanosheets Array: An Efficient Electrocatalyst for Hydrogen Evolution Reaction with Enhanced Activity at All pH Values. ACS Catalysis, 2017, 7, 98-102.	5.5	461
20	Ultrathin Graphitic Carbon Nitride Nanosheet: A Highly Efficient Fluorosensor for Rapid, Ultrasensitive Detection of Cu ²⁺ . Analytical Chemistry, 2013, 85, 5595-5599.	3.2	448
21	Self-Supported FeP Nanorod Arrays: A Cost-Effective 3D Hydrogen Evolution Cathode with High Catalytic Activity. ACS Catalysis, 2014, 4, 4065-4069.	5.5	419
22	NiP ₂ nanosheet arrays supported on carbon cloth: an efficient 3D hydrogen evolution cathode in both acidic and alkaline solutions. Nanoscale, 2014, 6, 13440-13445.	2.8	400
23	NiCo ₂ S ₄ nanowires array as an efficient bifunctional electrocatalyst for full water splitting with superior activity. Nanoscale, 2015, 7, 15122-15126.	2.8	390
24	Greatly Improving Electrochemical N ₂ Reduction over TiO ₂ Nanoparticles by Iron Doping. Angewandte Chemie - International Edition, 2019, 58, 18449-18453.	7.2	379
25	Stable Aqueous Dispersion of Graphene Nanosheets: Noncovalent Functionalization by a Polymeric Reducing Agent and Their Subsequent Decoration with Ag Nanoparticles for Enzymeless Hydrogen Peroxide Detection. Macromolecules, 2010, 43, 10078-10083.	2.2	370
26	Electrodeposited Co-doped NiSe ₂ nanoparticles film: a good electrocatalyst for efficient water splitting. Nanoscale, 2016, 8, 3911-3915.	2.8	367
27	High-Performance Electrolytic Oxygen Evolution in Neutral Media Catalyzed by a Cobalt Phosphate Nanoarray. Angewandte Chemie - International Edition, 2017, 56, 1064-1068.	7.2	348
28	Self-Standing CoP Nanosheets Array: A Three-Dimensional Bifunctional Catalyst Electrode for Overall Water Splitting in both Neutral and Alkaline Media. ChemElectroChem, 2017, 4, 1840-1845.	1.7	345
29	Mo ₂ C Nanoparticles Decorated Graphitic Carbon Sheets: Biopolymer-Derived Solid-State Synthesis and Application as an Efficient Electrocatalyst for Hydrogen Generation. ACS Catalysis, 2014, 4, 2658-2661.	5.5	343
30	An amorphous CoSe film behaves as an active and stable full water-splitting electrocatalyst under strongly alkaline conditions. Chemical Communications, 2015, 51, 16683-16686.	2.2	336
31	Ambient N ₂ fixation to NH ₃ at ambient conditions: Using Nb ₂ O ₅ nanofiber as a high-performance electrocatalyst. Nano Energy, 2018, 52, 264-270.	8.2	331
32	Ultrathin graphitic carbon nitride nanosheets: a low-cost, green, and highly efficient electrocatalyst toward the reduction of hydrogen peroxide and its glucose biosensing application. Nanoscale, 2013, 5, 8921.	2.8	321
33	A Zn-doped Ni ₃ S ₂ nanosheet array as a high-performance electrochemical water oxidation catalyst in alkaline solution. Chemical Communications, 2017, 53, 12446-12449.	2.2	315
34	A Mn-doped Ni ₂ P nanosheet array: an efficient and durable hydrogen evolution reaction electrocatalyst in alkaline media. Chemical Communications, 2017, 53, 11048-11051.	2.2	309
35	A Fe-doped Ni ₃ S ₂ particle film as a high-efficiency robust oxygen evolution electrode with very high current density. Journal of Materials Chemistry A, 2015, 3, 23207-23212.	5.2	308
36	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. Nanoscale, 2013, 5, 11604.	2.8	300

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37	A method for the production of reduced graphene oxide using benzylamine as a reducing and stabilizing agent and its subsequent decoration with Ag nanoparticles for enzymeless hydrogen peroxide detection. <i>Carbon</i> , 2011, 49, 3158-3164.	5.4	299
38	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.	5.2	295
39	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.	5.2	295
40	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.	11.1	294
41	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.	5.2	293
42	MoO ₃ nanosheets for efficient electrocatalytic N ₂ fixation to NH ₃ . <i>Journal of Materials Chemistry A</i> , 2018, 6, 12974-12977.	5.2	292
43	High-Performance N ₂ -to-NH ₃ Conversion Electrocatalyzed by Mo ₂ C Nanorod. <i>ACS Central Science</i> , 2019, 5, 116-121.	5.3	292
44	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.	4.0	287
45	Electrochemical N ₂ fixation to NH ₃ under ambient conditions: Mo ₂ N nanorod as a highly efficient and selective catalyst. <i>Chemical Communications</i> , 2018, 54, 8474-8477.	2.2	287
46	CoP Nanosheet Arrays Supported on a Ti Plate: An Efficient Cathode for Electrochemical Hydrogen Evolution. <i>Chemistry of Materials</i> , 2014, 26, 4326-4329.	3.2	285
47	Nucleic acid detection using carbon nanoparticles as a fluorescent sensing platform. <i>Chemical Communications</i> , 2011, 47, 961-963.	2.2	284
48	High-Performance Electrohydrogenation of N ₂ to NH ₃ Catalyzed by Multishelled Hollow Cr ₂ O ₃ Microspheres under Ambient Conditions. <i>ACS Catalysis</i> , 2018, 8, 8540-8544.	5.5	280
49	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.	4.0	279
50	Coordination-Induced Formation of Submicrometer-Scale, Monodisperse, Spherical Colloids of Organic-Inorganic Hybrid Materials at Room Temperature. <i>Journal of the American Chemical Society</i> , 2005, 127, 13102-13103.	6.6	278
51	Identifying the Origin of Ti ³⁺ Activity toward Enhanced Electrocatalytic N ₂ Reduction over TiO ₂ Nanoparticles Modulated by Mixed-Valent Copper. <i>Advanced Materials</i> , 2020, 32, e2000299.	11.1	278
52	Ni ₂ P nanoparticle films supported on a Ti plate as an efficient hydrogen evolution cathode. <i>Nanoscale</i> , 2014, 6, 11031-11034.	2.8	277
53	Co-Doped CuO Nanoarray: An Efficient Oxygen Evolution Reaction Electrocatalyst with Enhanced Activity. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 2883-2887.	3.2	277
54	One-pot green synthesis of Ag nanoparticles-graphene nanocomposites and their applications in SERS, H ₂ O ₂ , and glucose sensing. <i>RSC Advances</i> , 2012, 2, 538-545.	1.7	274

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55	Biomolecule-Assisted, Environmentally Friendly, One-Pot Synthesis of CuS/Reduced Graphene Oxide Nanocomposites with Enhanced Photocatalytic Performance. <i>Langmuir</i> , 2012, 28, 12893-12900.	1.6	269
56	Al-Doped CoP nanoarray: a durable water-splitting electrocatalyst with superhigh activity. <i>Nanoscale</i> , 2017, 9, 4793-4800.	2.8	268
57	Co-MOF nanosheet array: A high-performance electrochemical sensor for non-enzymatic glucose detection. <i>Sensors and Actuators B: Chemical</i> , 2019, 278, 126-132.	4.0	256
58	Boron Nanosheet: An Elemental Two-Dimensional (2D) Material for Ambient Electrocatalytic N_2 -to- NH_3 Fixation in Neutral Media. <i>ACS Catalysis</i> , 2019, 9, 4609-4615.	5.5	253
59	Design and Application of Foams for Electrocatalysis. <i>ChemCatChem</i> , 2017, 9, 1721-1743.	1.8	245
60	Large-Scale Synthesis of Micrometer-Scale Single-Crystalline Au Plates of Nanometer Thickness by a Wet-Chemical Route. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 6360-6363.	7.2	239
61	In situ green synthesis of Au nanostructures on graphene oxide and their application for catalytic reduction of 4-nitrophenol. <i>Catalysis Science and Technology</i> , 2011, 1, 1142.	2.1	239
62	Efficient Electrochemical Water Splitting Catalyzed by Electrodeposited Nickel Diselenide Nanoparticles Based Film. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 4718-4723.	4.0	239
63	Ag nanosheets for efficient electrocatalytic N_2 fixation to NH_3 under ambient conditions. <i>Chemical Communications</i> , 2018, 54, 11427-11430.	2.2	238
64	Hierarchical coral-like NiMoS nano hybrids as highly efficient bifunctional electrocatalysts for overall urea electrolysis. <i>Nano Research</i> , 2018, 11, 988-996.	5.8	236
65	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.	4.0	235
66	Electrochemical non-enzymatic glucose sensors: recent progress and perspectives. <i>Chemical Communications</i> , 2020, 56, 14553-14569.	2.2	235
67	Ultrathin Graphitic C ₃ N ₄ Nanosheets/Graphene Composites: Efficient Organic Electrocatalyst for Oxygen Evolution Reaction. <i>ChemSusChem</i> , 2014, 7, 2125-2130.	3.6	232
68	High-Efficiency Electrochemical Hydrogen Evolution Catalyzed by Tungsten Phosphide Submicroparticles. <i>ACS Catalysis</i> , 2015, 5, 145-149.	5.5	231
69	Ti ₃ C ₂ T _x (T = F, OH) MXene nanosheets: conductive 2D catalysts for ambient electrohydrogenation of N_2 to NH_3 . <i>Journal of Materials Chemistry A</i> , 2018, 6, 24031-24035.	5.2	231
70	Synthesis of functional SiO ₂ -coated graphene oxide nanosheets decorated with Ag nanoparticles for H ₂ O ₂ and glucose detection. <i>Biosensors and Bioelectronics</i> , 2011, 26, 4791-4797.	5.3	227
71	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.	5.2	227
72	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.	4.0	226

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73	Aqueous electrocatalytic N ₂ reduction for ambient NH ₃ synthesis: recent advances in catalyst development and performance improvement. <i>Journal of Materials Chemistry A</i> , 2020, 8, 1545-1556.	5.2	226
74	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.	3.0	225
75	Enabling Effective Electrocatalytic N ₂ Conversion to NH ₃ by the TiO ₂ Nanosheets Array under Ambient Conditions. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 28251-28255.	4.0	222
76	Honeycomb Carbon Nanofibers: A Superhydrophilic O ₂ Entrapping Electrocatalyst Enables Ultrahigh Mass Activity for the Two-Electron Oxygen Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 10583-10587.	7.2	219
77	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.	5.2	218
78	Cobalt Phosphide Nanowires: Efficient Nanostructures for Fluorescence Sensing of Biomolecules and Photocatalytic Evolution of Dihydrogen from Water under Visible Light. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 5493-5497.	7.2	216
79	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.	5.2	212
80	Ni ₃ S ₂ coated ZnO array for high-performance supercapacitors. <i>Journal of Power Sources</i> , 2014, 245, 463-467.	4.0	210
81	Electrodeposition of cobalt-sulfide nanosheets film as an efficient electrocatalyst for oxygen evolution reaction. <i>Electrochemistry Communications</i> , 2015, 60, 92-96.	2.3	210
82	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.	3.2	210
83	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.	3.2	209
84	Recent Advances in the Development of Water Oxidation Electrocatalysts at Mild pH. <i>Small</i> , 2019, 15, e1805103.	5.2	206
85	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.	5.2	204
86	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.	2.3	202
87	A general strategy for the production of photoluminescent carbon nitride dots from organic amines and their application as novel peroxidase-like catalysts for colorimetric detection of H ₂ O ₂ and glucose. <i>RSC Advances</i> , 2012, 2, 411-413.	1.7	201
88	Ambient N ₂ fixation to NH ₃ electrocatalyzed by a spinel Fe ₃ O ₄ nanorod. <i>Nanoscale</i> , 2018, 10, 14386-14389.	2.8	199
89	An ultrafine platinum-cobalt alloy decorated cobalt nanowire array with superb activity toward alkaline hydrogen evolution. <i>Nanoscale</i> , 2018, 10, 12302-12307.	2.8	199
90	Fabrication of hierarchical CoP nanosheet@microwire arrays <i>via</i> space-confined phosphidation toward high-efficiency water oxidation electrocatalysis under alkaline conditions. <i>Nanoscale</i> , 2018, 10, 7941-7945.	2.8	197

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91	In situ formation of a 3D core/shell structured Ni ₃ N@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.	5.2	196
92	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.	2.1	193
93	Fe-Doped Ni ₂ P Nanosheet Array for High-Efficiency Electrochemical Water Oxidation. <i>Inorganic Chemistry</i> , 2017, 56, 1041-1044.	1.9	193
94	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.	3.2	193
95	A self-supported hierarchical Co-MOF as a supercapacitor electrode with ultrahigh areal capacitance and excellent rate performance. <i>Chemical Communications</i> , 2018, 54, 10499-10502.	2.2	192
96	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.	3.0	191
97	Activated carbon nanotubes: a highly-active metal-free electrocatalyst for hydrogen evolution reaction. <i>Chemical Communications</i> , 2014, 50, 9340-9342.	2.2	187
98	NiS ₂ nanosheets array grown on carbon cloth as an efficient 3D hydrogen evolution cathode. <i>Electrochimica Acta</i> , 2015, 153, 508-514.	2.6	185
99	Iron-doped nickel disulfide nanoarray: A highly efficient and stable electrocatalyst for water splitting. <i>Nano Research</i> , 2016, 9, 3346-3354.	5.8	184
100	A NiCo LDH nanosheet array on graphite felt: an efficient 3D electrocatalyst for the oxygen evolution reaction in alkaline media. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 3162-3166.	3.0	181
101	High-Performance Electrochemical NO Reduction into NH ₃ by MoS ₂ Nanosheet. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 25263-25268.	7.2	180
102	Preparation of photoluminescent carbon nitride dots from CCl ₄ and 1,2-ethylenediamine: a heat-treatment-based strategy. <i>Journal of Materials Chemistry</i> , 2011, 21, 11726.	6.7	179
103	Synthesis of Au nanoparticles decorated graphene oxide nanosheets: Noncovalent functionalization by TWEEN 20 in situ reduction of aqueous chloroaurate ions for hydrazine detection and catalytic reduction of 4-nitrophenol. <i>Journal of Hazardous Materials</i> , 2011, 197, 320-326.	6.5	177
104	Self-assembled graphene platelet@glucose oxidase nanostructures for glucose biosensing. <i>Biosensors and Bioelectronics</i> , 2011, 26, 4491-4496.	5.3	176
105	CoSe ₂ Nanowires Array as a 3D Electrode for Highly Efficient Electrochemical Hydrogen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 3877-3881.	4.0	174
106	An amorphous Co-carbonate-hydroxide nanowire array for efficient and durable oxygen evolution reaction in carbonate electrolytes. <i>Nanoscale</i> , 2017, 9, 16612-16615.	2.8	173
107	One-Step Preparation and Characterization of Poly(propyleneimine) Dendrimer-Protected Silver Nanoclusters. <i>Macromolecules</i> , 2004, 37, 7105-7108.	2.2	172
108	Ambient Ammonia Synthesis via Electrochemical Reduction of Nitrate Enabled by NiCo ₂ O ₄ Nanowire Array. <i>Small</i> , 2022, 18, e2106961.	5.2	171

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109	Ag nanoparticles decorated polyaniline nanofibers: synthesis, characterization, and applications toward catalytic reduction of 4-nitrophenol and electrochemical detection of H ₂ O ₂ and glucose. <i>Catalysis Science and Technology</i> , 2012, 2, 800.	2.1	170
110	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.	3.2	170
111	High-performance non-enzymatic glucose detection: using a conductive Ni-MOF as an electrocatalyst. <i>Journal of Materials Chemistry B</i> , 2020, 8, 5411-5415.	2.9	170
112	Boron Phosphide Nanoparticles: A Nonmetal Catalyst for High-Selectivity Electrochemical Reduction of CO ₂ to CH ₃ OH. <i>Advanced Materials</i> , 2019, 31, e1903499.	11.1	169
113	Isolated copper single sites for high-performance electroreduction of carbon monoxide to multicarbon products. <i>Nature Communications</i> , 2021, 12, 238.	5.8	169
114	Environmentally Friendly, One-Pot Synthesis of Ag Nanoparticle-Decorated Reduced Graphene Oxide Composites and Their Application to Photocurrent Generation. <i>Inorganic Chemistry</i> , 2012, 51, 4742-4746.	1.9	168
115	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.	1.6	168
116	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.	3.8	167
117	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.	4.0	166
118	Recent advances in electrospun nanofibers for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2020, 8, 16747-16789.	5.2	166
119	High-Yield Synthesis of Large Single-Crystalline Gold Nanoplates through a Polyamine Process. <i>Langmuir</i> , 2005, 21, 4710-4712.	1.6	165
120	TiO ₂ nanoparticles@reduced graphene oxide hybrid: an efficient and durable electrocatalyst toward artificial N ₂ fixation to NH ₃ under ambient conditions. <i>Journal of Materials Chemistry A</i> , 2018, 6, 17303-17306.	5.2	165
121	N-Doped Carbon Nanospheres: An Efficient Electrocatalyst toward Artificial N ₂ Fixation to NH ₃ . <i>Small Methods</i> , 2019, 3, 1800251.	4.6	165
122	Greatly Enhanced Electrocatalytic N ₂ Reduction on TiO ₂ via V Doping. <i>Small Methods</i> , 2019, 3, 1900356.	4.6	164
123	One-pot synthesis of CuO nanoflower-decorated reduced graphene oxide and its application to photocatalytic degradation of dyes. <i>Catalysis Science and Technology</i> , 2012, 2, 339-344.	2.1	163
124	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.	2.6	159
125	In-situ Growth of NiSe Nanowire Film on Nickel Foam as an Electrode for High-Performance Supercapacitors. <i>ChemElectroChem</i> , 2015, 2, 1903-1907.	1.7	157
126	Highly-active oxygen evolution electrocatalyzed by an Fe-doped NiCr ₂ O ₄ nanoparticle film. <i>Chemical Communications</i> , 2018, 54, 5462-5465.	2.2	157

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127	Recent Advances in 1D Electrospun Nanocatalysts for Electrochemical Water Splitting. <i>Small Structures</i> , 2021, 2, 2000048.	6.9	157
128	Carbon nanoparticle for highly sensitive and selective fluorescent detection of mercury(II) ion in aqueous solution. <i>Biosensors and Bioelectronics</i> , 2011, 26, 4656-4660.	5.3	156
129	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.	5.2	154
130	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.	2.3	154
131	Acidically oxidized carbon cloth: a novel metal-free oxygen evolution electrode with high catalytic activity. <i>Chemical Communications</i> , 2015, 51, 1616-1619.	2.2	153
132	Synthesis of porous tubular C/MoS ₂ nanocomposites and their application as a novel electrode material for supercapacitors with excellent cycling stability. <i>Electrochimica Acta</i> , 2013, 100, 24-28.	2.6	152
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