Shuangyin Wang

List of Publications by Year
in descending order

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Version: 2024-02-01

309 papers	43,396 citations	1094 112 h-index	2375 198 g-index
319 all docs	319 docs citations	319 times ranked	27408 citing authors

#	Article	IF	Citations
1	Structurally ordered highâ€entropy intermetallic nanoparticles with enhanced Câ€“C bond cleavage for ethanol oxidation. SmartMat, 2023, 4, .	6.4	23
2	Activating surface atoms of high entropy oxides for enhancing oxygen evolution reaction. Chinese Chemical Letters, 2023, 34, 107571.	4.8	9
3	Ambient Fast Synthesis of Superaerophobic/Superhydrophilic Electrode for Superior Electrocatalytic Water Oxidation. Energy and Environmental Materials, 2023, 6, .	7.3	4
4	Etching oxide overlayers of NiFe phosphide to facilitate surface reconstruction for oxygen evolution reaction. Green Energy and Environment, 2022, 7, 365-371.	4.7	12
5	Green Synthesis of Nitrogenâ€toâ€Ammonia Fixation: Past, Present, and Future. Energy and Environmental Materials, 2022, 5, 452-457.	7.3	51
6	Recent Progress on Electrocatalytic Valorization of Biomassâ€Derived Organics. Energy and Environmental Materials, 2022, 5, 1117-1138.	7.3	38
7	Tailoring Competitive Adsorption Sites by Oxygenâ€Vacancy on Cobalt Oxides to Enhance the Electrooxidation of Biomass. Advanced Materials, 2022, 34, e2107185.	11.1	162
8	Highâ€Entropy Alloys for Electrocatalysis: Design, Characterization, and Applications. Small, 2022, 18, e2104339.	5.2	82
9	FeP Modulated Adsorption with Hydrogen and Phosphate Species for Hydrogen Oxidation in Highâ€Temperature Polymer Electrolyte Membrane Fuel Cells. Advanced Functional Materials, 2022, 32, 2106758.	7.8	9
10	Dopingâ€Modulated Strain Enhancing the Phosphate Tolerance on PtFe Alloys for Highâ€Temperature Proton Exchange Membrane Fuel Cells. Advanced Functional Materials, 2022, 32, .	7.8	45
11	Fluorination-enabled interface of PtNi electrocatalysts for high-performance high-temperature proton exchange membrane fuel cells. Science China Materials, 2022, 65, 904-912.	3.5	11
12	Co-CoF2 heterojunctions encapsulated in N, F co-doped porous carbon as bifunctional oxygen electrocatalysts for Zn-air batteries. Chemical Engineering Journal, 2022, 433, 133541.	6.6	23
13	Ion migration and defect effect of electrode materials in multivalent-ion batteries. Progress in Materials Science, 2022, 125, 100911.	16.0	79
14	Sublayer-enhanced atomic sites of single atom catalysts through in situ atomization of metal oxide nanoparticles. Energy and Environmental Science, 2022, 15, 1183-1191.	15.6	25
15	Transforming Electrocatalytic Biomass Upgrading and Hydrogen Production from Electricity Input to Electricity Output. Angewandte Chemie, 2022, 134, .	1.6	17
16	Transforming Electrocatalytic Biomass Upgrading and Hydrogen Production from Electricity Input to Electricity Output. Angewandte Chemie - International Edition, 2022, 61, e202115636.	7.2	50
17	Advanced Znâ€“I₂ Battery with Excellent Cycling Stability and Good Rate Performance by a Multifunctional Iodine Host. ACS Applied Materials & Interfaces, 2022, 14, 8955-8962.	4.0	38
18	Combined anodic and cathodic hydrogen production from aldehyde oxidation and hydrogen evolution reaction. Nature Catalysis, 2022, 5, 66-73.	16.1	276

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19	A Waveguide-Integrated Two-Dimensional Light-Emitting Diode Based on p-Type WSe₂/n-Type CdS Nanoribbon Heterojunction. ACS Nano, 2022, 16, 4371-4378.	7.3	17
20	Integrated Catalytic Sites for Highly Efficient Electrochemical Oxidation of the Aldehyde and Hydroxyl Groups in 5-Hydroxymethylfurfural. ACS Catalysis, 2022, 12, 4242-4251.	5.5	74
21	Sulfonic groups functionalized Zr-metal organic framework for highly catalytic transfer hydrogenation of furfural to furfuryl alcohol. Journal of Energy Chemistry, 2022, 71, 411-417.	7.1	30
22	Electrochemically formed PtFeNi alloy nanoparticles on defective NiFe LDHs with charge transfer for efficient water splitting. Chinese Journal of Catalysis, 2022, 43, 1101-1110.	6.9	12
23	Cobalt-regulation-induced dual active sites in Ni2P for hydrazine electrooxidation. Chinese Journal of Catalysis, 2022, 43, 1131-1138.	6.9	9
24	Activated Niâ€“OH Bonds in a Catalyst Facilitates the Nucleophile Oxidation Reaction. Advanced Materials, 2022, 34, e2105320.	11.1	47
25	Magnetic Doping Induced Strong Circularly Polarized Light Emission and Detection in 2D Layered Halide Perovskite. Advanced Optical Materials, 2022, 10, .	3.6	17
26	Manipulating Picosecond Photoresponse in van der Waals Heterostructure Photodetectors. Advanced Functional Materials, 2022, 32, .	7.8	6
27	Neuron-inspired design of hierarchically porous carbon networks embedded with single-iron sites for efficient oxygen reduction. Science China Chemistry, 2022, 65, 1445-1452.	4.2	17
28	Phosphotungstic acid modification boosting the cathode methanol tolerance for high-temperature direct methanol fuel cells. Journal of Power Sources, 2022, 541, 231643.	4.0	4
29	Oxygen Vacancy-Mediated Selective Câ€“N Coupling toward Electrocatalytic Urea Synthesis. Journal of the American Chemical Society, 2022, 144, 11530-11535.	6.6	142
30	Understanding the surface segregation behavior of bimetallic CoCu toward HMF oxidation reaction. Journal of Energy Chemistry, 2022, 74, 85-90.	7.1	19
31	Promoting surface reconstruction of NiFe layered double hydroxides via intercalating [Cr(C2O4)3]3â^' for enhanced oxygen evolution. Journal of Energy Chemistry, 2022, 74, 140-148.	7.1	20
32	Recent advances in defect electrocatalysts: Preparation and characterization. Journal of Energy Chemistry, 2021, 53, 208-225.	7.1	98
33	First demonstration of phosphate enhanced atomically dispersed bimetallic FeCu catalysts as Pt-free cathodes for high temperature phosphoric acid doped polybenzimidazole fuel cells. Applied Catalysis B: Environmental, 2021, 284, 119717.	10.8	28
34	Regulating carbon work function to boost electrocatalytic activity for the oxygen reduction reaction. Chinese Journal of Catalysis, 2021, 42, 938-944.	6.9	13
35	Electroreduction of Carbon Dioxide Driven by the Intrinsic Defects in the Carbon Plane of a Single Feâ€“N₄ Site. Advanced Materials, 2021, 33, e2003238.	11.1	202
36	Tuning the Selective Adsorption Site of Biomass on Co₃O₄ by Ir Single Atoms for Electrosynthesis. Advanced Materials, 2021, 33, e2007056.	11.1	217

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37	Perfecting electrocatalystsviaimperfections: towards the large-scale deployment of water electrolysis technology. Energy and Environmental Science, 2021, 14, 1722-1770.	15.6	213
38	Fe²⁺â€Induced In Situ Intercalation and Cation Exsolution of Co₈₀Fe₂₀(OH)(OCH₃) with Rich Vacancies for Boosting Oxygen Evolution Reaction. Advanced Functional Materials, 2021, 31, 2009245.	7.8	38
39	Unveiling the Electrooxidation of Urea: Intramolecular Coupling of the Nâ^'N Bond. Angewandte Chemie, 2021, 133, 7373-7383.	1.6	24
40	Unveiling the Electrooxidation of Urea: Intramolecular Coupling of the Nâ^'N Bond. Angewandte Chemie - International Edition, 2021, 60, 7297-7307.	7.2	204
41	Elucidating the electro-catalytic oxidation of hydrazine over carbon nanotube-based transition metal single atom catalysts. Nano Research, 2021, 14, 4650-4657.	5.8	23
42	Li⁺ Selectivity of Carboxylate Graphene Nanopores Inspired by Electric Field and Nanoconfinement. Small, 2021, 17, e2006704.	5.2	15
43	An Investigation of Active Sites for electrochemical CO₂ Reduction Reactions: From In Situ Characterization to Rational Design. Advanced Science, 2021, 8, 2003579.	5.6	101
44	Nonnitrogen Coordination Environment Steering Electrochemical CO₂-to-CO Conversion over Single-Atom Tin Catalysts in a Wide Potential Window. ACS Catalysis, 2021, 11, 5212-5221.	5.5	79
45	Surface Modification of Carbon-Based Electrodes for Vanadium Redox Flow Batteries. Energy & Fuels, 2021, 35, 8617-8633.	2.5	33
46	Tailoring lattice strain in ultra-fine high-entropy alloys for active and stable methanol oxidation. Science China Materials, 2021, 64, 2454-2466.	3.5	43
47	Defectâ€Rich Highâ€Entropy Oxide Nanosheets for Efficient 5â€Hydroxymethylfurfural Electrooxidation. Angewandte Chemie, 2021, 133, 20415-20420.	1.6	29
48	Defectâ€Rich Highâ€Entropy Oxide Nanosheets for Efficient 5â€Hydroxymethylfurfural Electrooxidation. Angewandte Chemie - International Edition, 2021, 60, 20253-20258.	7.2	184
49	Coupling Electrocatalytic Nitric Oxide Oxidation over Carbon Cloth with Hydrogen Evolution Reaction for Nitrate Synthesis. Angewandte Chemie - International Edition, 2021, 60, 24605-24611.	7.2	59
50	Construction of Nickelâ€Based Dual Heterointerfaces towards Accelerated Alkaline Hydrogen Evolution via Boosting Multiâ€Step Elementary Reaction. Advanced Functional Materials, 2021, 31, 2104827.	7.8	42
51	Identification of the hydrogen utilization pathway for the electrocatalytic hydrogenation of phenol. Science China Chemistry, 2021, 64, 1586-1595.	4.2	26
52	Coupling Electrocatalytic Nitric Oxide Oxidation over Carbon Cloth with Hydrogen Evolution Reaction for Nitrate Synthesis. Angewandte Chemie, 2021, 133, 24810-24816.	1.6	16
53	Coupling Glucoseâ€Assisted Cu(I)/Cu(II) Redox with Electrochemical Hydrogen Production. Advanced Materials, 2021, 33, e2104791.	11.1	126
54	Defect Engineering on CeO₂â€Based Catalysts for Heterogeneous Catalytic Applications. Small Structures, 2021, 2, 2100058.	6.9	94

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55	Ultrathin defective high-entropy layered double hydroxides for electrochemical water oxidation. Journal of Energy Chemistry, 2021, 60, 121-126.	7.1	54
56	Colloid self-assembly of c-axis oriented hydroxide thin films to boost the electrocatalytic oxidation reaction. Chemical Engineering Journal, 2021, 420, 130532.	6.6	12
57	Platinum Modulates Redox Properties and 5â€Hydroxymethylfurfural Adsorption Kinetics of Ni(OH)₂ for Biomass Upgrading. Angewandte Chemie - International Edition, 2021, 60, 22908-22914.	7.2	154
58	Recent Progress and Prospective of Nickel Selenide-Based Electrocatalysts for Water Splitting. Energy & Fuels, 2021, 35, 14283-14303.	2.5	32
59	Platinum Modulates Redox Properties and 5â€Hydroxymethylfurfural Adsorption Kinetics of Ni(OH)₂ for Biomass Upgrading. Angewandte Chemie, 2021, 133, 23090-23096.	1.6	8
60	An option for green and sustainable future: Electrochemical conversion of ammonia into nitrogen. Journal of Energy Chemistry, 2021, 60, 384-402.	7.1	27
61	Activity origin and alkalinity effect of electrocatalytic biomass oxidation on nickel nitride. Journal of Energy Chemistry, 2021, 61, 179-185.	7.1	50
62	Deciphering the alternating synergy between interlayer Pt single-atom and NiFe layered double hydroxide for overall water splitting. Energy and Environmental Science, 2021, 14, 6428-6440.	15.6	164
63	Advanced Cathode Electrocatalysts for Fuel Cells: Understanding, Construction, and Application of Carbon-Based and Platinum-Based Nanomaterials. , 2021, 3, 1610-1634.		26
64	Emerging Small Science on Nanomaterials for Energy Storage and Catalysis. Small Science, 2021, 1, 2100101.	5.8	1
65	Electrocatalytic Câ€“N Coupling for Urea Synthesis. Small Science, 2021, 1, 2100070.	5.8	86
66	Electrochemistry-Assisted Photoelectrochemical Reduction of Nitrogen to Ammonia. Journal of Physical Chemistry C, 2021, 125, 23041-23049.	1.5	18
67	Defect Chemistry Special Collection. Chemistry - an Asian Journal, 2021, 16, 112-113.	1.7	0
68	Silica-facilitated proton transfer for high-temperature proton-exchange membrane fuel cells. Science China Chemistry, 2021, 64, 2203-2211.	4.2	16
69	Recent Advances on Electrolysis for Simultaneous Generation of Valuable Chemicals at both Anode and Cathode. Advanced Energy Materials, 2021, 11, 2102292.	10.2	129
70	Scanning probe microscopy for electrocatalysis. Matter, 2021, 4, 3483-3514.	5.0	17
71	Room-temperature chemical looping hydrogen production mediated by electrochemically induced heterogeneous Cu(I)/Cu(II) redox. Chem Catalysis, 2021, 1, 1493-1504.	2.9	20
72	Room temperature plasma enriching oxygen vacancies of WO3 nanoflakes for photoelectrochemical water oxidation. Journal of Alloys and Compounds, 2020, 816, 152610.	2.8	17

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73	Charge Transfer Modulated Activity of Carbonâ€Based Electrocatalysts. Advanced Energy Materials, 2020, 10, 1901227.	10.2	156
74	Optimal Geometrical Configuration of Cobalt Cations in Spinel Oxides to Promote Oxygen Evolution Reaction. Angewandte Chemie, 2020, 132, 4766-4772.	1.6	37
75	Regulating Hydrogenation Chemoselectivity of Î±,Î²â€Unsaturated Aldehydes by Combination of Transfer and Catalytic Hydrogenation. ChemSusChem, 2020, 13, 1746-1750.	3.6	16
76	Optimal Geometrical Configuration of Cobalt Cations in Spinel Oxides to Promote Oxygen Evolution Reaction. Angewandte Chemie - International Edition, 2020, 59, 4736-4742.	7.2	134
77	Achieving electronic structure reconfiguration in metallic carbides for robust electrochemical water splitting. Journal of Materials Chemistry A, 2020, 8, 2453-2462.	5.2	71
78	Hierarchically Ordered Porous Carbon with Atomically Dispersed FeN₄ for Ultraefficient Oxygen Reduction Reaction in Protonâ€Exchange Membrane Fuel Cells. Angewandte Chemie - International Edition, 2020, 59, 2688-2694.	7.2	355
79	Hierarchically Ordered Porous Carbon with Atomically Dispersed FeN₄ for Ultraefficient Oxygen Reduction Reaction in Protonâ€Exchange Membrane Fuel Cells. Angewandte Chemie, 2020, 132, 2710-2716.	1.6	36
80	Activity Origins and Design Principles of Nickel-Based Catalysts for Nucleophile Electrooxidation. CheM, 2020, 6, 2974-2993.	5.8	302
81	Interlayer ligand engineering of Î²-Ni(OH)2 for oxygen evolution reaction. Science China Chemistry, 2020, 63, 1684-1693.	4.2	15
82	Sulfur-Rich (NH₄)₂Mo₃S₁₃ as a Highly Reversible Anode for Sodium/Potassium-Ion Batteries. ACS Nano, 2020, 14, 9626-9636.	7.3	43
83	Identifying the Geometric Site Dependence of Spinel Oxides for the Electrooxidation of 5â€Hydroxymethylfurfural. Angewandte Chemie - International Edition, 2020, 59, 19215-19221.	7.2	211
84	Identifying the Geometric Site Dependence of Spinel Oxides for the Electrooxidation of 5â€Hydroxymethylfurfural. Angewandte Chemie, 2020, 132, 19377-19383.	1.6	41
85	Controlled chelation between tannic acid and Fe precursors to obtain N, S co-doped carbon with high density Fe-single atom-nanoclusters for highly efficient oxygen reduction reaction in Znâ€“air batteries. Journal of Materials Chemistry A, 2020, 8, 17136-17149.	5.2	64
86	Defect Chemistry in Heterogeneous Catalysis: Recognition, Understanding, and Utilization. ACS Catalysis, 2020, 10, 11082-11098.	5.5	324
87	Nonâ€Metal Singleâ€Phosphorusâ€Atom Catalysis of Hydrogen Evolution. Angewandte Chemie, 2020, 132, 23999-24007.	1.6	16
88	Nonâ€Metal Singleâ€Phosphorusâ€Atom Catalysis of Hydrogen Evolution. Angewandte Chemie - International Edition, 2020, 59, 23791-23799.	7.2	69
89	Regulation of Morphology and Electronic Structure of NiSe₂ by Fe for High Effective Oxygen Evolution Reaction. Chemistry - an Asian Journal, 2020, 15, 3845-3852.	1.7	17
90	Hierarchically nanostructured NiO-Co3O4 with rich interface defects for the electro-oxidation of 5-hydroxymethylfurfural. Science China Chemistry, 2020, 63, 980-986.	4.2	85

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91	Atomically Dispersed Fe on Nanosheet-linked, Defect-rich, Highly N-Doped 3D Porous Carbon for Efficient Oxygen Reduction. Chemical Research in Chinese Universities, 2020, 36, 453-458.	1.3	12
92	Operando Identification of the Dynamic Behavior of Oxygen Vacancy-Rich Co₃O₄ for Oxygen Evolution Reaction. Journal of the American Chemical Society, 2020, 142, 12087-12095.	6.6	736
93	Coupling N2 and CO2 in H2O to synthesize urea under ambient conditions. Nature Chemistry, 2020, 12, 717-724.	6.6	485
94	Identifying the Intrinsic Relationship between the Restructured Oxide Layer and Oxygen Evolution Reaction Performance on the Cobalt Pnictide Catalyst. Small, 2020, 16, e1906867.	5.2	72
95	Defect Engineering for Fuelâ€Cell Electrocatalysts. Advanced Materials, 2020, 32, e1907879.	11.1	338
96	Nanostructured electrocatalysts for electrochemical carboxylation with CO₂. Nano Select, 2020, 1, 135-151.	1.9	26
97	Defect engineering of the protection layer for photoelectrochemical devices. EnergyChem, 2020, 2, 100039.	10.1	15
98	Advanced Exfoliation Strategies for Layered Double Hydroxides and Applications in Energy Conversion and Storage. Advanced Functional Materials, 2020, 30, 1909832.	7.8	94
99	Defect repair of tin selenide photocathode via in situ selenization: enhanced photoelectrochemical performance and environmental stability. Journal of Materials Chemistry A, 2020, 8, 5342-5349.	5.2	8
100	In-situ phase transition of WO3 boosting electron and hydrogen transfer for enhancing hydrogen evolution on Pt. Nano Energy, 2020, 71, 104653.	8.2	149
101	Bifunctional Catalysts for Reversible Oxygen Evolution Reaction and Oxygen Reduction Reaction. Chemistry - A European Journal, 2020, 26, 3906-3929.	1.7	90
102	Three-Dimensional Self-assembled Hairball-Like VS4 as High-Capacity Anodes for Sodium-Ion Batteries. Nano-Micro Letters, 2020, 12, 39.	14.4	35
103	Defect Engineering on Electrode Materials for Rechargeable Batteries. Advanced Materials, 2020, 32, e1905923.	11.1	543
104	In Situ Exfoliation and Pt Deposition of Antimonene for Formic Acid Oxidation via a Predominant Dehydrogenation Pathway. Research, 2020, 2020, 5487237.	2.8	10
105	Frontispiece: Bifunctional Catalysts for Reversible Oxygen Evolution Reaction and Oxygen Reduction Reaction. Chemistry - A European Journal, 2020, 26, .	1.7	0
106	3D-crosslinked tannic acid/poly(ethylene oxide) complex as a three-in-one multifunctional binder for high-sulfur-loading and high-stability cathodes in lithium-sulfur batteries. Energy Storage Materials, 2019, 17, 293-299.	9.5	76
107	Sâ€Doped Carbon Fibers Uniformly Embedded with Ultrasmall TiO₂ for Na⁺/Li⁺ Storage with High Capacity and Longâ€Time Stability. Small, 2019, 15, e1902201.	5.2	40
108	Interfacial effects in supported catalysts for electrocatalysis. Journal of Materials Chemistry A, 2019, 7, 23432-23450.	5.2	94

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109	A high-performance, highly bendable quasi-solid-state zincâ€“organic battery enabled by intelligent proton-self-buffering copolymer cathodes. Journal of Materials Chemistry A, 2019, 7, 17292-17298.	5.2	40
110	Disordered CoFePi nanosheets with rich vacancies as oxygen evolving electrocatalysts: Insight into the local atomic environment. Journal of Power Sources, 2019, 427, 215-222.	4.0	29
111	Tuning the Electron Localization of Gold Enables the Control of Nitrogenâ€toâ€Ammonia Fixation. Angewandte Chemie - International Edition, 2019, 58, 18604-18609.	7.2	146
112	Tuning the Electron Localization of Gold Enables the Control of Nitrogenâ€toâ€Ammonia Fixation. Angewandte Chemie, 2019, 131, 18777-18782.	1.6	8
113	Electronic structure regulation on layered double hydroxides for oxygen evolution reaction. Chinese Journal of Catalysis, 2019, 40, 1822-1840.	6.9	48
114	Quinary Defect-Rich Ultrathin Bimetal Hydroxide Nanosheets for Water Oxidation. ACS Applied Materials & Interfaces, 2019, 11, 44018-44025.	4.0	15
115	Na/Liâ€Ion Batteries: Sâ€Doped Carbon Fibers Uniformly Embedded with Ultrasmall TiO₂ for Na⁺/Li⁺ Storage with High Capacity and Longâ€Time Stability (Small 38/2019). Small, 2019, 15, 1970207.	5.2	0
116	Electrochemical Oxidation of 5â€Hydroxymethylfurfural on Nickel Nitride/Carbon Nanosheets: Reaction Pathway Determined by In Situ Sum Frequency Generation Vibrational Spectroscopy. Angewandte Chemie, 2019, 131, 16042-16050.	1.6	100
117	Electrochemical Oxidation of 5â€Hydroxymethylfurfural on Nickel Nitride/Carbon Nanosheets: Reaction Pathway Determined by In Situ Sum Frequency Generation Vibrational Spectroscopy. Angewandte Chemie - International Edition, 2019, 58, 15895-15903.	7.2	309
118	Identification of active sites for acidic oxygen reduction on carbon catalysts with and without nitrogen doping. Nature Catalysis, 2019, 2, 688-695.	16.1	423
119	Micromachining of ferrous metal with an ion implanted diamond cutting tool. Carbon, 2019, 152, 598-608.	5.4	27
120	Single-crystalline layered double hydroxides with rich defects and hierarchical structure by mild reduction for enhancing the oxygen evolution reaction. Science China Chemistry, 2019, 62, 1365-1370.	4.2	61
121	Zirconiumâ€Regulationâ€Induced Bifunctionality in 3D Cobaltâ€“Iron Oxide Nanosheets for Overall Water Splitting. Advanced Materials, 2019, 31, e1901439.	11.1	306
122	Insight into the design of defect electrocatalysts: From electronic structure to adsorption energy. Materials Today, 2019, 31, 47-68.	8.3	311
123	Modulating the electronic structure of ultrathin layered double hydroxide nanosheets with fluorine: an efficient electrocatalyst for the oxygen evolution reaction. Journal of Materials Chemistry A, 2019, 7, 14483-14488.	5.2	73
124	Efficiency and stability of narrow-gap semiconductor-based photoelectrodes. Energy and Environmental Science, 2019, 12, 2345-2374.	15.6	88
125	Transition Metalâ€dinitrogen Complex Embedded Graphene for Nitrogen Reduction Reaction. ChemCatChem, 2019, 11, 2821-2827.	1.8	68
126	Rational design of three-phase interfaces for electrocatalysis. Nano Research, 2019, 12, 2055-2066.	5.8	135

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127	Engineering the electronic structure of Co3O4 by carbon-doping for efficient overall water splitting. Electrochimica Acta, 2019, 303, 316-322.	2.6	98
128	Tuning the Electrochemical Property of the Ultrafine Metalâ€oxide Nanoclusters by Iron Phthalocyanine as Efficient Catalysts for Energy Storage and Conversion. Energy and Environmental Materials, 2019, 2, 5-17.	7.3	32
129	Low-temperature plasma technology for electrocatalysis. Chinese Chemical Letters, 2019, 30, 826-838.	4.8	57
130	Surface chemical-functionalization of ultrathin two-dimensional nanomaterials for electrocatalysis. Materials Today Energy, 2019, 12, 250-268.	2.5	48
131	Supported Single Atoms as New Class of Catalysts for Electrochemical Reduction of Carbon Dioxide. Small Methods, 2019, 3, 1800440.	4.6	155
132	In-situ evolution of active layers on commercial stainless steel for stable water splitting. Applied Catalysis B: Environmental, 2019, 248, 277-285.	10.8	99
133	Defectsâ€Induced Inâ€Plane Heterophase in Cobalt Oxide Nanosheets for Oxygen Evolution Reaction. Small, 2019, 15, e1904903.	5.2	69
134	Defective glycerolatocobalt(<scp>ii</scp>) for enhancing the oxygen evolution reaction. Chemical Communications, 2019, 55, 12861-12864.	2.2	8
135	Low-temperature synthesis of small-sized high-entropy oxides for water oxidation. Journal of Materials Chemistry A, 2019, 7, 24211-24216.	5.2	207
136	Chemically activated MoS2 for efficient hydrogen production. Nano Energy, 2019, 57, 535-541.	8.2	95
137	Defectâ€Based Singleâ€Atom Electrocatalysts. Small Methods, 2019, 3, 1800406.	4.6	139
138	Bridging the Surface Charge and Catalytic Activity of a Defective Carbon Electrocatalyst. Angewandte Chemie - International Edition, 2019, 58, 1019-1024.	7.2	224
139	Bï£¿N Pairs Enriched Defective Carbon Nanosheets for Ammonia Synthesis with High Efficiency. Small, 2019, 15, e1805029.	5.2	164
140	Photoelectrochemical Synthesis of Ammonia on the Aerophilic-Hydrophilic Heterostructure with 37.8% Efficiency. CheM, 2019, 5, 617-633.	5.8	241
141	Efficient Metalâ€Free Electrocatalysts from Nâ€Doped Carbon Nanomaterials: Monoâ€Doping and Coâ€Doping. Advanced Materials, 2019, 31, e1805121.	11.1	329
142	Defect Engineering Strategies for Nitrogen Reduction Reactions under Ambient Conditions. Small Methods, 2019, 3, 1800331.	4.6	199
143	Defect engineering on electrocatalysts for gas-evolving reactions. Dalton Transactions, 2019, 48, 15-20.	1.6	48
144	Antimony Nanorod Encapsulated in Cross-Linked Carbon for High-Performance Sodium Ion Battery Anodes. Nano Letters, 2019, 19, 538-544.	4.5	113

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145	Bridging the Surface Charge and Catalytic Activity of a Defective Carbon Electrocatalyst. Angewandte Chemie, 2019, 131, 1031-1036.	1.6	41
146	Transforming Co3O4 nanosheets into porous N-doped Co O nanosheets with oxygen vacancies for the oxygen evolution reaction. Journal of Energy Chemistry, 2019, 35, 24-29.	7.1	98
147	Rational Design of Transition Metalâ€Based Materials for Highly Efficient Electrocatalysis. Small Methods, 2019, 3, 1800211.	4.6	250
148	First-principles study of methanol adsorption on heteroatom-doped phosphorene. Chinese Chemical Letters, 2019, 30, 207-210.	4.8	15
149	Grapheneâ€Encapsulated FeS₂ in Carbon Fibers as High Reversible Anodes for Na⁺/K⁺ Batteries in a Wide Temperature Range. Small, 2019, 15, e1804740.	5.2	115
150	Recent Advances on Nonâ€precious Metal Porous Carbonâ€based Electrocatalysts for Oxygen Reduction Reaction. ChemElectroChem, 2018, 5, 1775-1785.	1.7	146
151	Tuning Surface Electronic Configuration of NiFe LDHs Nanosheets by Introducing Cation Vacancies (Fe or Ni) as Highly Efficient Electrocatalysts for Oxygen Evolution Reaction. Small, 2018, 14, e1800136.	5.2	341
152	Pyridinic-N-Dominated Doped Defective Graphene as a Superior Oxygen Electrocatalyst for Ultrahigh-Energy-Density Znâ€“Air Batteries. ACS Energy Letters, 2018, 3, 1183-1191.	8.8	456
153	Supramolecular bimetallogels: a nanofiber network for bimetal/nitrogen co-doped carbon electrocatalysts. Journal of Materials Chemistry A, 2018, 6, 8227-8232.	5.2	24
154	3D Carbon Electrocatalysts In Situ Constructed by Defectâ€Rich Nanosheets and Polyhedrons from NaClâ€Sealed Zeolitic Imidazolate Frameworks. Advanced Functional Materials, 2018, 28, 1705356.	7.8	233
155	Plasmaâ€Assisted Synthesis and Surface Modification of Electrode Materials for Renewable Energy. Advanced Materials, 2018, 30, e1705850.	11.1	476
156	Hybrid thermoelectric battery electrode FeS2 study. Nano Energy, 2018, 45, 432-438.	8.2	35
157	Iron-Doped NiCoP Porous Nanosheet Arrays as a Highly Efficient Electrocatalyst for Oxygen Evolution Reaction. ACS Applied Energy Materials, 2018, 1, 571-579.	2.5	99
158	LDHs derived nanoparticle-stacked metal nitride as interlayer for long-life lithium sulfur batteries. Science Bulletin, 2018, 63, 169-175.	4.3	60
159	Porous CoP nanosheets converted from layered double hydroxides with superior electrochemical activity for hydrogen evolution reactions at wide pH ranges. Chemical Communications, 2018, 54, 1465-1468.	2.2	120
160	N, P-dual doped carbon with trace Co and rich edge sites as highly efficient electrocatalyst for oxygen reduction reaction. Science China Materials, 2018, 61, 679-685.	3.5	54
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