Bin Liu

List of Publications by Year in descending order

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Version: 2024-02-01

262 papers	37,707 citations	3159 92 h-index	3106 187 g-index
273 all docs	273 docs citations	273 times ranked	35339 citing authors

#	Article	IF	Citations
1	Amorphous alloys for electrocatalysis: The significant role of the amorphous alloy structure. Nano Research, 2023, 16, 4277-4288.	10.4	32
2	Atomically-dispersed NiN₄â€“Cl active sites with axial Niâ€“Cl coordination for accelerating electrocatalytic hydrogen evolution. Journal of Materials Chemistry A, 2022, 10, 6007-6015.	10.3	22
3	Strong Metalâ€“Support Interaction Boosts Activity, Selectivity, and Stability in Electrosynthesis of H₂O₂. Journal of the American Chemical Society, 2022, 144, 2255-2263.	13.7	90
4	Hierarchical trace copper incorporation activated cobalt layered double hydroxide as a highly selective methanol conversion electrocatalyst to realize energy-matched photovoltaic-electrocatalytic formate and hydrogen co-production. Journal of Materials Chemistry A, 2022, 10, 19649-19661.	10.3	12
5	Boosting ORR performance by single atomic divacancy Znâ€“N3Câ€“C8 sites on ultrathin N-doped carbon nanosheets. Chem Catalysis, 2022, 2, 836-852.	6.1	25
6	Constructing partially amorphous borate doped iron-nickel nitrate hydroxide nanoarrays by rapid microwave activation for oxygen evolution. Applied Surface Science, 2022, 592, 153245.	6.1	6
7	Efficient and Selective CO₂ Reduction to Formate on Pdâ€Doped Pb₃(CO₃)₂(OH)₂: Dynamic Catalyst Reconstruction and Accelerated CO₂ Protonation. Small, 2022, 18, e2107885.	10.0	18
8	Understanding the Effect of *CO Coverage on Câ€“C Coupling toward CO₂ Electroreduction. Nano Letters, 2022, 22, 3801-3808.	9.1	44
9	Enhancing the Mechanical Robustness of Gold Nanowire Array via Sulfideâ€Mediated Growth. Small Structures, 2022, 3, .	12.0	3
10	Polarization Engineering of Covalent Triazine Frameworks for Highly Efficient Photosynthesis of Hydrogen Peroxide from Molecular Oxygen and Water. Advanced Materials, 2022, 34, e2110266.	21.0	136
11	Ruthenium/titanium oxide interface promoted electrochemical nitrogen reduction reaction. Chem Catalysis, 2022, 2, 1764-1774.	6.1	6
12	Recent Advances in Carbonâ€Supported Nobleâ€Metal Electrocatalysts for Hydrogen Evolution Reaction: Syntheses, Structures, and Properties. Advanced Energy Materials, 2022, 12, .	19.5	64
13	Identifying Activity Trends for the Electrochemical Production of H₂O₂ on Mâ€“Nâ€“C Single-Atom Catalysts Using Theoretical Kinetic Computations. Journal of Physical Chemistry C, 2022, 126, 10388-10398.	3.1	12
14	Rational design of donor-acceptor conjugated polymers with high performance on peroxydisulfate activation for pollutants degradation. Applied Catalysis B: Environmental, 2022, 316, 121611.	20.2	73
15	Unraveling the Mechanism on Ultrahigh Efficiency Photocatalytic H₂O₂ Generation for Dualâ€Heteroatom Incorporated Polymeric Carbon Nitride. Advanced Functional Materials, 2022, 32, .	14.9	100
16	Kinetic Insights of Proton Exchange Membrane Water Electrolyzer Obtained by Operando Characterization Methods. Journal of Physical Chemistry Letters, 2022, 13, 6520-6531.	4.6	12
17	Van der Waals heterojunction for selective visible-light-driven photocatalytic CO2 reduction. Applied Catalysis B: Environmental, 2021, 284, 119733.	20.2	92
18	Coordination Engineering of Singleâ€Atom Catalysts for the Oxygen Reduction Reaction: A Review. Advanced Energy Materials, 2021, 11, 2002473.	19.5	217

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19	Noble metal nanowire arrays as an ethanol oxidation electrocatalyst. Nanoscale Advances, 2021, 3, 177-181.	4.6	6
20	Real-time photoelectrochemical quantification of hydrogen peroxide produced by living cells. Chemical Engineering Journal, 2021, 407, 127203.	12.7	32
21	How does mass transfer influence electrochemical carbon dioxide reduction reaction? A case study of Ni molecular catalyst supported on carbon. Chemical Communications, 2021, 57, 1384-1387.	4.1	18
22	Halide perovskite composites for photocatalysis: A mini review. EcoMat, 2021, 3, e12079.	11.9	60
23	Atomically Dispersed Feâ€“Heteroatom (N, S) Bridge Sites Anchored on Carbon Nanosheets for Promoting Oxygen Reduction Reaction. ACS Energy Letters, 2021, 6, 379-386.	17.4	167
24	Ordered clustering of single atomic Te vacancies in atomically thin PtTe2 promotes hydrogen evolution catalysis. Nature Communications, 2021, 12, 2351.	12.8	83
25	Atomically dispersed antimony on carbon nitride for the artificial photosynthesis of hydrogen peroxide. Nature Catalysis, 2021, 4, 374-384.	34.4	474
26	In-Situ doping-induced crystal form transition of amorphous Pdâ€“P catalyst for robust electrocatalytic hydrodechlorination. Applied Catalysis B: Environmental, 2021, 284, 119713.	20.2	41
27	Unveiling the In Situ Generation of a Monovalent Fe(I) Site in the Single-Fe-Atom Catalyst for Electrochemical CO₂ Reduction. ACS Catalysis, 2021, 11, 7292-7301.	11.2	51
28	Phosphorus modified carbon fiber cloth as a robust and efficient anode for alkaline water electrolysis. Materials Today Energy, 2021, 20, 100683.	4.7	2
29	Progress of Nonpreciousâ€Metalâ€Based Electrocatalysts for Oxygen Evolution in Acidic Media. Advanced Materials, 2021, 33, e2003786.	21.0	166
30	Orbital coupling of hetero-diatomic nickel-iron site for bifunctional electrocatalysis of CO2 reduction and oxygen evolution. Nature Communications, 2021, 12, 4088.	12.8	259
31	Atomically dispersed Pd electrocatalyst for efficient aqueous phase dechlorination reaction. Electrochimica Acta, 2021, 391, 138886.	5.2	20
32	In situ/operando MÃ¶ssbauer spectroscopy for probing heterogeneous catalysis. Chem Catalysis, 2021, 1, 1215-1233.	6.1	24
33	Boosting Hydrogen Evolution Reaction via Electronic Coupling of Cerium Phosphate with Molybdenum Phosphide Nanobelts. Small, 2021, 17, e2102413.	10.0	27
34	Dynamic Restructuring of Cuâ€Doped SnS₂ Nanoflowers for Highly Selective Electrochemical CO₂ Reduction to Formate. Angewandte Chemie, 2021, 133, 26437-26441.	2.0	8
35	In Situ Precise Tuning of Bimetallic Electronic Effect for Boosting Oxygen Reduction Catalysis. Nano Letters, 2021, 21, 7753-7760.	9.1	24
36	Dynamic Restructuring of Cuâ€Doped SnS₂ Nanoflowers for Highly Selective Electrochemical CO₂ Reduction to Formate. Angewandte Chemie - International Edition, 2021, 60, 26233-26237.	13.8	66

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37	Ni₂P Interlayer and Mn Doping Synergistically Expedite the Hydrogen Evolution Reaction Kinetics of Co₂P. Chemistry - A European Journal, 2021, 27, 3536-3541.	3.3	10
38	Ultrafine Co₆W₆C as an efficient anode catalyst for direct hydrazine fuel cells. Chemical Communications, 2021, 57, 10415-10418.	4.1	6
39	Recent advances in single atom catalysts for the electrochemical carbon dioxide reduction reaction. Chemical Science, 2021, 12, 6800-6819.	7.4	130
40	Microwave hydrothermally synthesized WO3/UiO-66 nanocomposites toward enhanced photocatalytic degradation of rhodamine B. Advanced Composites and Hybrid Materials, 2021, 4, 1330-1342.	21.1	57
41	Boosting Hydrogen Evolution Reaction via Electronic Coupling of Cerium Phosphate with Molybdenum Phosphide Nanobelts (Small 40/2021). Small, 2021, 17, 2170208.	10.0	5
42	Electrochemical Reduction of CO₂ to CO over Transition Metal/Nâ€Doped Carbon Catalysts: The Active Sites and Reaction Mechanism. Advanced Science, 2021, 8, e2102886.	11.2	121
43	Electrochemical looping hydrogen production at room temperature. Chem Catalysis, 2021, 1, 1365-1366.	6.1	1
44	Elucidating the Electrocatalytic CO₂ Reduction Reaction over a Model Singleâ€Atom Nickel Catalyst. Angewandte Chemie - International Edition, 2020, 59, 798-803.	13.8	315
45	Elucidating the Electrocatalytic CO₂ Reduction Reaction over a Model Singleâ€Atom Nickel Catalyst. Angewandte Chemie, 2020, 132, 808-813.	2.0	33
46	Polyvinyl Chlorideâ€Derived Carbon Spheres for CO₂ Adsorption. ChemSusChem, 2020, 13, 6426-6432.	6.8	31
47	Amorphous/Crystalline Heterostructured Cobaltâ€Vanadiumâ€Iron (Oxy)hydroxides for Highly Efficient Oxygen Evolution Reaction. Advanced Energy Materials, 2020, 10, 2002215.	19.5	198
48	Identification of the Electronic and Structural Dynamics of Catalytic Centers in Single-Fe-Atom Material. CheM, 2020, 6, 3440-3454.	11.7	231
49	Boosting oxygen evolution reaction on graphene through engineering electronic structure. Carbon, 2020, 170, 414-420.	10.3	26
50	Adaptive Bifunctional Electrocatalyst of Amorphous CoFe Oxide @ 2D Black Phosphorus for Overall Water Splitting. Angewandte Chemie, 2020, 132, 21292-21299.	2.0	26
51	Adaptive Bifunctional Electrocatalyst of Amorphous CoFe Oxide @ 2D Black Phosphorus for Overall Water Splitting. Angewandte Chemie - International Edition, 2020, 59, 21106-21113.	13.8	182
52	Hybridization of Bimetallic Molybdenumâ€Tungsten Carbide with Nitrogenâ€Doped Carbon: A Rational Design of Super Active Porous Composite Nanowires with Tailored Electronic Structure for Boosting Hydrogen Evolution Catalysis. Advanced Functional Materials, 2020, 30, 2003198.	14.9	57
53	Atomically-precise dopant-controlled single cluster catalysis for electrochemical nitrogen reduction. Nature Communications, 2020, 11, 4389.	12.8	110
54	Microenvironment modulation of single-atom catalysts and their roles in electrochemical energy conversion. Science Advances, 2020, 6, .	10.3	214

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55	Coordination engineering of iridium nanocluster bifunctional electrocatalyst for highly efficient and pH-universal overall water splitting. Nature Communications, 2020, 11, 4246.	12.8	221
56	Tuning the Electronic Structures of Multimetal Oxide Nanoplates to Realize Favorable Adsorption Energies of Oxygenated Intermediates. ACS Nano, 2020, 14, 17640-17651.	14.6	56
57	Electron-withdrawing functional ligand promotes CO2 reduction catalysis in single atom catalyst. Science China Chemistry, 2020, 63, 1727-1733.	8.2	49
58	Dual single-site catalyst promoter boosts catalytic performance. National Science Review, 2020, 7, 1841-1842.	9.5	4
59	Amorphous Multimetal Alloy Oxygen Evolving Catalysts. , 2020, 2, 624-632.		45
60	Rational Design of an Iridiumâ€“Tungsten Composite with an Iridium-Rich Surface for Acidic Water Oxidation. ACS Applied Materials & Interfaces, 2020, 12, 25991-26001.	8.0	36
61	Amorphous versus Crystalline in Water Oxidation Catalysis: A Case Study of NiFe Alloy. Nano Letters, 2020, 20, 4278-4285.	9.1	201
62	Metal organic frameworks for adsorption-based separation of fluorocompounds: a review. Materials Advances, 2020, 1, 310-320.	5.4	53
63	High performance Ni catalysts prepared by freeze drying for efficient dry reforming of methane. Applied Catalysis B: Environmental, 2020, 275, 119109.	20.2	60
64	Single-Ni-atom catalyzes aqueous phase electrochemical reductive dechlorination reaction. Applied Catalysis B: Environmental, 2020, 277, 119057.	20.2	51
65	Advances in Thermodynamic-Kinetic Model for Analyzing the Oxygen Evolution Reaction. ACS Catalysis, 2020, 10, 8597-8610.	11.2	89
66	Tuning reactivity of Fischerâ€“Tropsch synthesis by regulating TiOx overlayer over Ru/TiO2 nanocatalysts. Nature Communications, 2020, 11, 3185.	12.8	114
67	Progress of Electrochemical Hydrogen Peroxide Synthesis over Single Atom Catalysts. , 2020, 2, 1008-1024.		129
68	Carbonâ€based cathode materials for rechargeable zincâ€air batteries: From current collectors to bifunctional integrated air electrodes. , 2020, 2, 370-386.		82
69	Design of hierarchical, threeâ€dimensional freeâ€standing singleâ€atom electrode for H₂O₂ production in acidic media. , 2020, 2, 276-282.		56
70	A general method to construct single-atom catalysts supported on N-doped graphene for energy applications. Journal of Materials Chemistry A, 2020, 8, 6190-6195.	10.3	41
71	The nonmetal modulation of composition and morphology of g-C3N4-based photocatalysts. Applied Catalysis B: Environmental, 2020, 269, 118828.	20.2	237
72	In-situ phase transition of WO3 boosting electron and hydrogen transfer for enhancing hydrogen evolution on Pt. Nano Energy, 2020, 71, 104653.	16.0	149

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73	Enabling Direct H2O2 Production in Acidic Media through Rational Design of Transition Metal Single Atom Catalyst. CheM, 2020, 6, 658-674.	11.7	418
74	Plasmon-enhanced photoelectrochemical water splitting by InGaN/GaN nano-photoanodes. Semiconductor Science and Technology, 2020, 35, 025017.	2.0	17
75	Electrostatic self-assembly of a AgI/Bi₂Ga₄O₉ pâ€“n junction photocatalyst for boosting superoxide radical generation. Journal of Materials Chemistry A, 2020, 8, 4083-4090.	10.3	73
76	Pre-deposited Co nanofilms promoting high alloying degree of Pd Au nanoparticles as electrocatalysts in alkaline media. International Journal of Hydrogen Energy, 2020, 45, 28024-28033.	7.1	4
77	Atomically Dispersed Nickel(I) on an Alloyâ€Encapsulated Nitrogenâ€Doped Carbon Nanotube Array for Highâ€Performance Electrochemical CO₂ Reduction Reaction. Angewandte Chemie, 2020, 132, 12153-12159.	2.0	27
78	Atomically Dispersed Nickel(I) on an Alloyâ€Encapsulated Nitrogenâ€Doped Carbon Nanotube Array for Highâ€Performance Electrochemical CO₂ Reduction Reaction. Angewandte Chemie - International Edition, 2020, 59, 12055-12061.	13.8	117
79	Making fully printed perovskite solar cells stable outdoor with inorganic superhydrophobic coating. Journal of Energy Chemistry, 2020, 50, 332-338.	12.9	18
80	Self-assembly of three-dimensional CdS nanosphere/graphene networks for efficient photocatalytic hydrogen evolution. Journal of Energy Chemistry, 2019, 31, 34-38.	12.9	35
81	Revealing Energetics of Surface Oxygen Redox from Kinetic Fingerprint in Oxygen Electrocatalysis. Journal of the American Chemical Society, 2019, 141, 13803-13811.	13.7	151
82	Rational design of carbon-based metal-free catalysts for electrochemical carbon dioxide reduction: A review. Journal of Energy Chemistry, 2019, 36, 95-105.	12.9	91
83	Nanowire Photoelectrochemistry. Chemical Reviews, 2019, 119, 9221-9259.	47.7	158
84	Supported Nobleâ€Metal Single Atoms for Heterogeneous Catalysis. Advanced Materials, 2019, 31, e1902031.	21.0	207
85	Catalyst: Single-Atom Catalysis: Directing the Way toward the Nature of Catalysis. CheM, 2019, 5, 2733-2735.	11.7	57
86	Layered Structure Causes Bulk NiFe Layered Double Hydroxide Unstable in Alkaline Oxygen Evolution Reaction. Advanced Materials, 2019, 31, e1903909.	21.0	345
87	Bifunctional N-CoSe₂/3D-MXene as Highly Efficient and Durable Cathode for Rechargeable Znâ€“Air Battery. , 2019, 1, 432-439.		90
88	Photoelectrochemical CO₂ reduction to adjustable syngas on grain-boundary-mediated a-Si/TiO₂/Au photocathodes with low onset potentials. Energy and Environmental Science, 2019, 12, 923-928.	30.8	114
89	Breaking Long-Range Order in Iridium Oxide by Alkali Ion for Efficient Water Oxidation. Journal of the American Chemical Society, 2019, 141, 3014-3023.	13.7	337
90	Nanostructuring Confinement for Controllable Interfacial Charge Transfer. Small, 2019, 15, e1804391.	10.0	13

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91	A General Method to Probe Oxygen Evolution Intermediates at Operating Conditions. Joule, 2019, 3, 1498-1509.	24.0	243
92	Selective photoelectrochemical oxidation of glycerol to high value-added dihydroxyacetone. Nature Communications, 2019, 10, 1779.	12.8	185
93	Breaking the symmetry: Gradient in NiFe layered double hydroxide nanoarrays for efficient oxygen evolution. Nano Energy, 2019, 60, 661-666.	16.0	52
94	In Situ/Operando Techniques for Characterization of Single-Atom Catalysts. ACS Catalysis, 2019, 9, 2521-2531.	11.2	296
95	Expedient synthesis of E -hydrazone esters and 1 H -indazole scaffolds through heterogeneous single-atom platinum catalysis. Science Advances, 2019, 5, eaay1537.	10.3	31
96	NiFe Hydroxide Lattice Tensile Strain: Enhancement of Adsorption of Oxygenated Intermediates for Efficient Water Oxidation Catalysis. Angewandte Chemie, 2019, 131, 746-750.	2.0	55
97	The Absence and Importance of Operando Techniques for Metalâ€Free Catalysts. Advanced Materials, 2019, 31, e1805609.	21.0	25
98	Preparation of Ni(OH)2/TiO2 porous film with novel structure and electrochromic property. Solar Energy Materials and Solar Cells, 2019, 191, 108-116.	6.2	24
99	NiFe Hydroxide Lattice Tensile Strain: Enhancement of Adsorption of Oxygenated Intermediates for Efficient Water Oxidation Catalysis. Angewandte Chemie - International Edition, 2019, 58, 736-740.	13.8	335
100	Phase interactions in Ni-Cu-Al2O3 mixed oxide oxygen carriers for chemical looping applications. Applied Energy, 2019, 236, 635-647.	10.1	33
101	Organic-inorganic hybrid perovskite â€“ TiO2 nanorod arrays for efficient and stable photoelectrochemical hydrogen evolution from HI splitting. Materials Today Chemistry, 2019, 12, 1-6.	3.5	32
102	Single-Atom Catalysis toward Efficient CO₂ Conversion to CO and Formate Products. Accounts of Chemical Research, 2019, 52, 656-664.	15.6	348
103	N, P dual-doped hollow carbon spheres supported MoS2 hybrid electrocatalyst for enhanced hydrogen evolution reaction. Catalysis Today, 2019, 330, 259-267.	4.4	39
104	Holey nickel hydroxide nanosheets for wearable solid-state fiber-supercapacitors. Nanoscale, 2018, 10, 5442-5448.	5.6	50
105	Assembly and photochemical properties of mesoporous networks of spinel ferrite nanoparticles for environmental photocatalytic remediation. Applied Catalysis B: Environmental, 2018, 227, 330-339.	20.2	51
106	Anchoring Mn₃O₄ Nanoparticles on Oxygen Functionalized Carbon Nanotubes as Bifunctional Catalyst for Rechargeable Zinc-Air Battery. ACS Applied Energy Materials, 2018, 1, 963-969.	5.1	80
107	Fluorocarbon Separation in a Thermally Robust Zirconium Carboxylate Metalâ€“Organic Framework. Chemistry - an Asian Journal, 2018, 13, 977-981.	3.3	16
108	Identifying Active Sites of Nitrogenâ€Doped Carbon Materials for the CO₂ Reduction Reaction. Advanced Functional Materials, 2018, 28, 1800499.	14.9	244

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109	In Situ/Operando Characterization Techniques to Probe the Electrochemical Reactions for Energy Conversion. Small Methods, 2018, 2, 1700395.	8.6	131
110	An Earthâ€Abundant Catalystâ€Based Seawater Photoelectrolysis System with 17.9% Solarâ€toâ€Hydrogen Efficiency. Advanced Materials, 2018, 30, e1707261.	21.0	189
111	Tuning the Electronic Spin State of Catalysts by Strain Control for Highly Efficient Water Electrolysis. Small Methods, 2018, 2, 1800001.	8.6	70
112	Atomically dispersed Ni(i) as the active site for electrochemical CO2 reduction. Nature Energy, 2018, 3, 140-147.	39.5	1,594
113	Ultrasmall Transition Metal Carbide Nanoparticles Encapsulated in N, Sâ€Doped Graphene for Allâ€pH Hydrogen Evolution. Small Methods, 2018, 2, 1700353.	8.6	53
114	High-Performance Niâ€“Fe Redox Catalysts for Selective CH₄ to Syngas Conversion via Chemical Looping. ACS Catalysis, 2018, 8, 1748-1756.	11.2	72
115	Plasmonâ€Dictated Photoâ€Electrochemical Water Splitting for Solarâ€toâ€Chemical Energy Conversion: Current Status and Future Perspectives. Advanced Materials Interfaces, 2018, 5, 1701098.	3.7	92
116	High Spin State Promotes Water Oxidation Catalysis at Neutral pH in Spinel Cobalt Oxide. Industrial & Engineering Chemistry Research, 2018, 57, 1441-1445.	3.7	28
117	Surface Rutilization of Anatase TiO2 for Efficient Electron Extraction and Stable Pmax Output of Perovskite Solar Cells. CheM, 2018, 4, 911-923.	11.7	28
118	Hydrogenated TiO2 nanosheet based flowerlike architectures: Enhanced sensing performances and sensing mechanism. Journal of Alloys and Compounds, 2018, 749, 543-555.	5.5	14
119	Fabrication of 3D mesoporous networks of assembled CoO nanoparticles for efficient photocatalytic reduction of aqueous Cr(VI). Applied Catalysis B: Environmental, 2018, 221, 635-644.	20.2	85
120	Unique role of MÃ¶ssbauer spectroscopy in assessing structural features of heterogeneous catalysts. Applied Catalysis B: Environmental, 2018, 224, 518-532.	20.2	83
121	Homologous Co₃O₄â€“CoP nanowires grown on carbon cloth as a high-performance electrode pair for triclosan degradation and hydrogen evolution. Materials Chemistry Frontiers, 2018, 2, 323-330.	5.9	37
122	Boosting oxygen reaction activity by coupling sulfides for high-performance rechargeable metalâ€“air battery. Journal of Materials Chemistry A, 2018, 6, 21162-21166.	10.3	38
123	Nitrogen and sulfur Co-doped graphene inlaid with cobalt clusters for efficient oxygen reduction reaction. Materials Today Energy, 2018, 10, 184-190.	4.7	24
124	Shape-Controlled Synthesis of Metalâ€“Organic Frameworks with Adjustable Fenton-Like Catalytic Activity. ACS Applied Materials & Interfaces, 2018, 10, 38051-38056.	8.0	48
125	Aqueous-phase hydrodechlorination of 4-chlorophenol on palladium nanocrystals: Identifying the catalytic sites and unraveling the reaction mechanism. Journal of Catalysis, 2018, 368, 336-344.	6.2	38
126	Single Cobalt Atoms Anchored on Porous N-Doped Graphene with Dual Reaction Sites for Efficient Fenton-like Catalysis. Journal of the American Chemical Society, 2018, 140, 12469-12475.	13.7	1,044

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127	Molecular modulation of fluorene-dibenzothiophene-S,S-dioxide-based conjugated polymers for enhanced photoelectrochemical water oxidation under visible light. Materials Chemistry Frontiers, 2018, 2, 2021-2025.	5.9	12
128	Novel design of photoelectrochemical device by dual BiVO4 photoelectrode with abundant oxygen vacancy. Science Bulletin, 2018, 63, 1027-1028.	9.0	4
129	Mesoporous implantable Pt/SrTiO3:C,N nanocuboids delivering enhanced photocatalytic H2-production activity via plasmon-induced interfacial electron transfer. Applied Catalysis B: Environmental, 2018, 236, 338-347.	20.2	35
130	Iron Vacancies Induced Bifunctionality in Ultrathin Feroxyhyte Nanosheets for Overall Water Splitting. Advanced Materials, 2018, 30, e1803144.	21.0	225
131	In situ growth of single-layered Î±-Ni(OH)₂ nanosheets on a carbon cloth for highly efficient electrocatalytic oxidation of urea. Journal of Materials Chemistry A, 2018, 6, 13867-13873.	10.3	80
132	Adsorption separation of R134a, R125, and R143a fluorocarbon mixtures using 13X and surface modified 5A zeolites. AICHE Journal, 2018, 64, 640-648.	3.6	19
133	Unraveling Oxygen Evolution Reaction on Carbon-Based Electrocatalysts: Effect of Oxygen Doping on Adsorption of Oxygenated Intermediates. ACS Energy Letters, 2017, 2, 294-300.	17.4	145
134	Nickelâ€“Cobalt Diselenide 3D Mesoporous Nanosheet Networks Supported on Ni Foam: An Allâ€pH Highly Efficient Integrated Electrocatalyst for Hydrogen Evolution. Advanced Materials, 2017, 29, 1606521.	21.0	370
135	Use of Platinum as the Counter Electrode to Study the Activity of Nonprecious Metal Catalysts for the Hydrogen Evolution Reaction. ACS Energy Letters, 2017, 2, 1070-1075.	17.4	366
136	Highly efficient and durable MoNiNC catalyst for hydrogen evolution reaction. Nano Energy, 2017, 37, 1-6.	16.0	79
137	Enhanced visible-light photocatalytic hydrogen production activity of three-dimensional mesoporous p-CuS/n-CdS nanocrystal assemblies. Inorganic Chemistry Frontiers, 2017, 4, 433-441.	6.0	47
138	Direct and selective hydrogenation of CO₂ to ethylene and propene by bifunctional catalysts. Catalysis Science and Technology, 2017, 7, 5602-5607.	4.1	118
139	In situ etching-induced self-assembly of metal cluster decorated one-dimensional semiconductors for solar-powered water splitting: unraveling cooperative synergy by photoelectrochemical investigations. Nanoscale, 2017, 9, 17118-17132.	5.6	88
140	Separation of Au Nanoplates and Nanoparticles through Density Gradient Centrifugation. Chemistry Letters, 2017, 46, 1570-1572.	1.3	1
141	Highly Concentrated, Ultrathin Nickel Hydroxide Nanosheet Ink for Wearable Energy Storage Devices. Advanced Materials, 2017, 29, 1703455.	21.0	62
142	Fabricating efficient CdSeâ€“CdS photocatalyst systems by spatially resetting water splitting sites. Journal of Materials Chemistry A, 2017, 5, 20131-20135.	10.3	21
143	Unraveling the Intrinsic Structures that Influence the Transport of Charges in TiO₂ Electrodes. Advanced Energy Materials, 2017, 7, 1700886.	19.5	28
144	Effects of structure and size of Ni nanocatalysts on hydrogen selectivity via water-gas-shift reactionâ€”A first-principles-based kinetic study. Catalysis Today, 2017, 280, 210-219.	4.4	24

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145	An ambipolar azaacene as a stable photocathode for metal-free light-driven water reduction. Materials Chemistry Frontiers, 2017, 1, 495-498.	5.9	33
146	Revisiting one-dimensional TiO2 based hybrid heterostructures for heterogeneous photocatalysis: a critical review. Materials Chemistry Frontiers, 2017, 1, 231-250.	5.9	67
147	Controllable synthesis of Î±-MoC1-x and Î²-Mo2C nanowires for highly selective CO2 reduction to CO. Catalysis Communications, 2016, 84, 147-150.	3.3	66
148	Full Characterization and Photoelectrochemical Behavior of Pyreneâ€fused Octaazadecacene and Tetraazaoctacene. Chemistry - an Asian Journal, 2016, 11, 482-485.	3.3	28
149	Nitrogen-doped cobalt phosphate@nanocarbon hybrids for efficient electrocatalytic oxygen reduction. Energy and Environmental Science, 2016, 9, 2563-2570.	30.8	216
150	Surface Rutilization of Anatase TiO₂ Nanorods for Creation of Synergistically Bridging and Fencing Electron Highways. Advanced Functional Materials, 2016, 26, 456-465.	14.9	52
151	Sustainable hydrogen and chemical production via photo-electrochemical reforming of biomass-derived alcohols. Nano Research, 2016, 9, 3388-3393.	10.4	20
152	Size Effects of Platinum Nanoparticles in the Photocatalytic Hydrogen Production Over 3D Mesoporous Networks of CdS and Pt Nanojunctions. Advanced Functional Materials, 2016, 26, 8062-8071.	14.9	98
153	Layer-by-layer assembly of nitrogen-doped graphene quantum dots monolayer decorated one-dimensional semiconductor nanoarchitectures for solar-driven water splitting. Journal of Materials Chemistry A, 2016, 4, 16383-16393.	10.3	59
154	A Molecular Relayâ€Modified CdSâ€Sensitized Photoelectrochemical Cell for Overall Water Splitting. ChemElectroChem, 2016, 3, 1471-1477.	3.4	4
155	Identification of Surface Reactivity Descriptor for Transition Metal Oxides in Oxygen Evolution Reaction. Journal of the American Chemical Society, 2016, 138, 9978-9985.	13.7	345
156	Tuning chemical bonding of MnO2 through transition-metal doping for enhanced CO oxidation. Journal of Catalysis, 2016, 341, 82-90.	6.2	132
157	Adsorption Separation of Râ€22, Râ€32â€‰and Râ€125 Fluorocarbons using 4A Molecular Sieve Zeolite. ChemistrySelect, 2016, 1, 3718-3722.	1.5	20
158	Modulation of Crystal Surface and Lattice by Doping: Achieving Ultrafast Metal-Ion Insertion in Anatase TiO₂. ACS Applied Materials & Interfaces, 2016, 8, 29186-29193.	8.0	23
159	Sulfur-Mediated Self-Templating Synthesis of Tapered C-PAN/g-C₃N₄ Composite Nanotubes toward Efficient Photocatalytic H₂ Evolution. ACS Energy Letters, 2016, 1, 969-975.	17.4	86
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