Chen Chen

List of PR Articles by Year in descending order

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202 PR articles	38,534 PR citations	1823 90 PR h-index	1800 188 g-index
209 documents	43580 doc citations	2466 93 h-index	26863 citing authors

#	Article	IF	PR Citations
1	3D Oxideâ€Derived Ru Catalyst for Ultraâ€Efficient Hydrogenation of Levulinic Acid to Î³â€Valerolactone. Small, 2024, 20, .	11.6	5
2	Harnessing single-atom catalysts for CO₂ electroreduction: a review of recent advances. EES Catalysis, 2024, 2, 71-93.	7.4	46
3	Highly Dispersed Ultrasmall Highâ€Entropy Alloys Nanoparticles as Efficient Electrocatalysts for Oxygen Reduction in Acidic Media. Small, 2024, 20, .	11.6	30
4	Microenvironment reconstitution of highly active Ni single atoms on oxygen-incorporated Mo2C for water splitting. Nature Communications, 2024, 15, .	13.9	157
5	Customizing catalyst surface/interface structures for electrochemical CO₂reduction. Chemical Science, 2024, 15, 4292-4312.	7.1	24
6	Stable hydrogen evolution reaction at high current densities via designing the Ni single atoms and Ru nanoparticles linked by carbon bridges. Nature Communications, 2024, 15, .	13.9	171
7	Two-dimensional materials and their applications in fuel cells. IScience, 2024, 27, 109841.	3.6	9
8	Circumventing the activityâ€“selectivity trade-off via the confinement effect from induced potential barriers on the Pd nanoparticle surface. Chemical Science, 2024, 15, 8363-8371.	7.1	3
9	Direct Microenvironment Modulation of CO₂ Electroreduction: Negatively Charged Ag Sites Going beyond Catalytic Surface Reactions. Angewandte Chemie, 2024, 136, .	1.4	3
10	Carbon-Boosted and Nitrogen-Stabilized Isolated Single-Atom Sites for Direct Dehydrogenation of Lower Alkanes. Journal of the American Chemical Society, 2024, 146, 20668-20677.	15.0	18
11	Constructing Asymmetric Feâ€“Nb Diatomic Sites to Enhance ORR Activity and Durability. Journal of the American Chemical Society, 2024, 146, 26442-26453.	15.0	143
12	Main-group element-boosted oxygen electrocatalysis of Cu-N-C sites for zinc-air battery with cycling over 5000â€‰h. Nature Communications, 2024, 15, .	13.9	60
13	High Durability of Feâ€“Nâ€“C Singleâ€Atom Catalysts with Carbon Vacancies toward theÂOxygen Reduction Reaction in Alkaline Media. Advanced Materials, 2023, 35, .	24.5	436
14	Singleâ€Atomâ€Mediated Spinel Octahedral Structures for Elevated Performances of Liâ€Oxygen Batteries. Angewandte Chemie - International Edition, 2023, 62, .	14.4	35
15	Singleâ€Atomâ€Mediated Spinel Octahedral Structures for Elevated Performances of Liâ€Oxygen Batteries. Angewandte Chemie, 2023, 135, .	1.4	8
16	Heterogeneous Iridium Single-Atom Molecular-like Catalysis for Epoxidation of Ethylene. Journal of the American Chemical Society, 2023, 145, 6658-6670.	15.0	62
17	Modulating the Asymmetric Atomic Interface of Copper Single Atoms for Efficient CO₂ Electroreduction. ACS Nano, 2023, 17, 4619-4628.	15.3	90
18	Atomic-level regulation strategies of single-atom catalysts: Nonmetal heteroatom doping and polymetallic active site construction. Chem Catalysis, 2023, 3, 100586.	9.7	25

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19	Stabilizing Copper by a Reconstruction-Resistant Atomic Cuâ€“Oâ€“Si Interface for Electrochemical CO₂ Reduction. Journal of the American Chemical Society, 2023, 145, 8656-8664.	15.0	178
20	Two-Dimensional Covalent Framework Derived Nonprecious Transition Metal Single-Atomic-Site Electrocatalyst toward High-Efficiency Oxygen Reduction. Nano Letters, 2023, 23, 3803-3809.	8.7	12
21	Electron induction of atomically dispersed Fe sites by adjacent Te atoms promotes CO2 activation in electroreduction. Chem Catalysis, 2023, 3, 100610.	9.7	21
22	Enhancing Carrier Transport via Ïƒâ€Linkage Length Modulation in Dâ€Ïƒâ€A Semiconductors for Photocatalytic Oxidation. Angewandte Chemie, 2023, 135, .	1.4	2
23	Enhancing Carrier Transport via Ïƒâ€Linkage Length Modulation in Dâ€Ïƒâ€A Semiconductors for Photocatalytic Oxidation. Angewandte Chemie - International Edition, 2023, 62, .	14.4	28
24	p-Block-metal bismuth-based electrocatalysts featuring tunable selectivity for high-performance oxygen reduction reaction. Joule, 2023, 7, 1003-1015.	25.8	101
25	Multi-interfacial charge polarization for enhancing the hydrogen evolution reaction. Catalysis Science and Technology, 2023, 13, 4107-4116.	4.0	4
26	Oxalateâ€Assisted Synthesis of Hollow Carbon Nanocage With Fe Single Atoms for Electrochemical CO₂ Reduction. Small, 2023, 19, .	11.6	30
27	pâ€Block Bismuth Nanoclusters Sites Activated by Atomically Dispersed Bismuth for Tandem Boosting Electrocatalytic Hydrogen Peroxide Production. Angewandte Chemie, 2023, 135, .	1.4	9
28	pâ€Block Bismuth Nanoclusters Sites Activated by Atomically Dispersed Bismuth for Tandem Boosting Electrocatalytic Hydrogen Peroxide Production. Angewandte Chemie - International Edition, 2023, 62, .	14.4	54
29	Engineering Molecular Heterostructured Catalyst for Oxygen Reduction Reaction. Journal of the American Chemical Society, 2023, 145, 21273-21283.	15.0	71
30	Tunable Oxygen Vacancies of Cobalt Oxides in Lithiumâ€“Oxygen Batteries: Morphology Control of Discharge Product. Nano Letters, 2023, 23, 9119-9125.	8.7	28
31	Cobalt Single Atom Incorporated in Ruthenium Oxide Sphere: A Robust Bifunctional Electrocatalyst for HER and OER. Angewandte Chemie, 2022, 134, .	1.4	179
32	Cobalt Single Atom Incorporated in Ruthenium Oxide Sphere: A Robust Bifunctional Electrocatalyst for HER and OER. Angewandte Chemie - International Edition, 2022, 61, .	14.4	303
33	Interfacial polarization in ultra-small Co3S4â^'MoS2 heterostructure for efficient electrocatalytic hydrogen evolution reaction. Applied Materials Today, 2022, 26, 101311.	3.9	31
34	Atomically dispersed Ni anchored on polymer-derived mesh-like N-doped carbon nanofibers as an efficient CO2 electrocatalytic reduction catalyst. Nano Research, 2022, 15, 3959-3963.	8.6	23
35	Dual Role of Pyridinic-N Doping in Carbon-Coated Ni Nanoparticles for Highly Efficient Electrochemical CO₂ Reduction to CO over a Wide Potential Range. ACS Catalysis, 2022, 12, 1364-1374.	12.4	144
36	Distinct Crystalâ€Facetâ€Dependent Behaviors for Singleâ€Atom Palladiumâ€Onâ€Ceria Catalysts: Enhanced Stabilization and Catalytic Properties. Advanced Materials, 2022, 34, .	24.5	219

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37	Combination of Fe(II)-induced oxygen deficiency and metal doping strategy for construction of high efficiency water oxidation electrocatalysts under industrial-scale current density. Chemical Engineering Journal, 2022, 435, 135048.	12.0	14
38	Engineering Lattice Disorder on a Photocatalyst: Photochromic BiOBr Nanosheets Enhance Activation of Aromatic Câ€“H Bonds via Water Oxidation. Journal of the American Chemical Society, 2022, 144, 3386-3397.	15.0	253
39	Hierarchical Ni/Ni(OH)₂-NiCo₂O₄ Supported on Ni Foam as Efficient Bifunctional Electrocatalysts for Water Splitting. Journal of Physical Chemistry C, 2022, 126, 5493-5501.	3.1	29
40	Doping Ruthenium into Metal Matrix for Promoted pHâ€Universal Hydrogen Evolution. Advanced Science, 2022, 9, .	12.7	67
41	Rational design and precise manipulation of nano-catalysts. Chinese Journal of Catalysis, 2022, 43, 898-912.	16.4	12
42	Role of percentage of {0 0 1} crystal facets in TiO2 supports toward the waterâ€“gas shift reaction over Au-TiO2 catalysts. Chemical Engineering Journal, 2022, 446, 137010.	12.0	29
43	Construction of N, P Coâ€Doped Carbon Frames Anchored with Fe Single Atoms and Fe₂P Nanoparticles as a Robust Coupling Catalyst for Electrocatalytic Oxygen Reduction. Advanced Materials, 2022, 34, .	24.5	247
44	Synergetic effect of nitrogen-doped carbon catalysts for high-efficiency electrochemical CO2 reduction. Chinese Journal of Catalysis, 2022, 43, 1697-1702.	16.4	19
45	Atomically Dispersed CoN₃C₁â€¢â€¢â€¢NiN₁C₃ Diatomic Sites Anchored in Nâ€Doped Carbon as Efficient Bifunctional Catalyst for Synergistic Electrocatalytic Hydrogen Evolution and Oxygen Reduction. Small, 2022, 18, .	11.6	55
46	Tailoring the selectivity and activity of oxygen reduction by regulating the coordination environments of carbon-supported atomically dispersed metal sites. Journal of Materials Chemistry A, 2022, 10, 17948-17967.	9.3	46
47	Atomic-level engineering Fe₁N₂O₂ interfacial structure derived from oxygen-abundant metalâ€“organic frameworks to promote electrochemical CO₂ reduction. Energy and Environmental Science, 2022, 15, 3795-3804.	30.9	88
48	Natureâ€Inspired Design of Molybdenumâ€“Selenium Dualâ€Singleâ€Atom Electrocatalysts for CO₂ Reduction. Advanced Materials, 2022, 34, .	24.5	110
49	Interfacial water engineering boosts neutral water reduction. Nature Communications, 2022, 13, .	13.9	269
50	A Two-Dimensional van der Waals Heterostructure with Isolated Electron-Deficient Cobalt Sites toward High-Efficiency CO₂ Electroreduction. Journal of the American Chemical Society, 2022, 144, 21502-21511.	15.0	75
51	Atomic Replacement of PtNi Nanoalloys within Zn-ZIF-8 for the Fabrication of a Multisite CO₂ Reduction Electrocatalyst. Journal of the American Chemical Society, 2022, 144, 23223-23229.	15.0	102
52	Atomically dispersed Niâ€“Ruâ€“P interface sites for high-efficiency pH-universal electrocatalysis of hydrogen evolution. Nano Energy, 2021, 80, 105467.	16.3	171
53	Manganese vacancy-confined single-atom Ag in cryptomelane nanorods for efficient Wacker oxidation of styrene derivatives. Chemical Science, 2021, 12, 6099-6106.	7.1	37
54	The facile synthesis of coreâ€“shell PtCu nanoparticles with superior electrocatalytic activity and stability in the hydrogen evolution reaction. RSC Advances, 2021, 11, 26326-26335.	4.4	31

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55	Fe₁N₄â€“O₁ site with axial Feâ€“O coordination for highly selective CO₂ reduction over a wide potential range. Energy and Environmental Science, 2021, 14, 3430-3437.	30.9	177
56	A general strategy to prepare atomically dispersed biomimetic catalysts based on hostâ€“guest chemistry. Chemical Communications, 2021, 57, 1895-1898.	3.4	3
57	Supported Ni@Ni₂P Coreâ€“Shell Nanotube Arrays on Ni Foam for Hydrazine Electrooxidation. ACS Sustainable Chemistry and Engineering, 2021, 9, 4564-4570.	6.9	28
58	Tailoring lattice strain in ultra-fine high-entropy alloys for active and stable methanol oxidation. Science China Materials, 2021, 64, 2454-2466.	6.7	103
59	Constructing FeN4/graphitic nitrogen atomic interface for high-efficiency electrochemical CO2 reduction over a broad potential window. CheM, 2021, 7, 1297-1307.	16.6	240
60	Atomic Co/Ni dual sites with N/P-coordination as bifunctional oxygen electrocatalyst for rechargeable zinc-air batteries. Nano Research, 2021, 14, 3482-3488.	8.6	167
61	Graphdiyne/Graphene Heterostructure: A Universal 2D Scaffold Anchoring Monodispersed Transition-Metal Phthalocyanines for Selective and Durable CO₂ Electroreduction. Journal of the American Chemical Society, 2021, 143, 8679-8688.	15.0	154
62	Regulating the electronic structure of NiFe layered double hydroxide/reduced graphene oxide by Mn incorporation for high-efficiency oxygen evolution reaction. Science China Materials, 2021, 64, 2729-2738.	6.7	42
63	Hierarchical trimetallic Co-Ni-Fe oxides derived from core-shell structured metal-organic frameworks for highly efficient oxygen evolution reaction. Applied Catalysis B: Environmental, 2021, 287, 119953.	20.5	266
64	Self-assembled mesostructured Co0.5Fe2.5O4 nanoparticle superstructures for highly efficient oxygen evolution. Journal of Colloid and Interface Science, 2021, 593, 125-132.	9.9	6
65	Partial positively charged Pt in Pt/MgAl2O4 for enhanced dehydrogenation activity. Applied Catalysis B: Environmental, 2021, 288, 119996.	20.5	81
66	Oxygen Vacancy-Rich RuO₂â€“Co₃O₄ Nanohybrids as Improved Electrocatalysts for Liâ€“O₂ Batteries. ACS Applied Materials & Interfaces, 2021, 13, 39239-39247.	8.0	64
67	Anion-exchange-mediated internal electric field for boosting photogenerated carrier separation and utilization. Nature Communications, 2021, 12, .	13.9	115
68	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.	30.9	475
69	Engineering a light-weight, thin and dual-functional interlayer as â€œpolysulfides sieveâ€•capable of synergistic adsorption for high-performance lithium-sulfur batteries. Chemical Engineering Journal, 2020, 383, 123163.	12.0	39
70	Synergistically Interactive Pyridinicâ€Nâ€“MoP Sites: Identified Active Centers for Enhanced Hydrogen Evolution in Alkaline Solution. Angewandte Chemie - International Edition, 2020, 59, 8982-8990.	14.4	379
71	Tuning strain effect and surface composition in PdAu hollow nanospheres as highly efficient ORR electrocatalysts and SERS substrates. Applied Catalysis B: Environmental, 2020, 262, 118298.	20.5	96
72	Synergistically Interactive Pyridinicâ€Nâ€“MoP Sites: Identified Active Centers for Enhanced Hydrogen Evolution in Alkaline Solution. Angewandte Chemie, 2020, 132, 9067-9075.	1.4	68

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73	Atomically dispersed Fe atoms anchored on COF-derived N-doped carbon nanospheres as efficient multi-functional catalysts. Chemical Science, 2020, 11, 786-790.	7.1	134
74	Structural Regulation with Atomic-Level Precision: From Single-Atomic Site to Diatomic and Atomic Interface Catalysis. Matter, 2020, 2, 78-110.	16.0	323
75	Reaction environment self-modification on low-coordination Ni2+ octahedra atomic interface for superior electrocatalytic overall water splitting. Nano Research, 2020, 13, 3068-3074.	8.6	30
76	Atomic iron on mesoporous N-doped carbon to achieve dehydrogenation reaction at room temperature. Nano Research, 2020, 13, 3075-3081.	8.6	32
77	Atomically dispersed Ni in cadmium-zinc sulfide quantum dots for high-performance visible-light photocatalytic hydrogen production. Science Advances, 2020, 6, .	11.0	113
78	Isolated Singleâ€Atom Ruthenium Anchored on Beta Zeolite as an Efficient Heterogeneous Catalyst for Styrene Epoxidation. ChemNanoMat, 2020, 6, 1647-1651.	2.5	37
79	Interface Engineering of Partially Phosphidated Co@Coâ€“P@NPCNTs for Highly Enhanced Electrochemical Overall Water Splitting. Small, 2020, 16, .	11.6	95
80	Optimized Selfâ€Templating Synthesis Method for Highly Crystalline Hollow Cu₂O Nanoboxes. Small Methods, 2020, 4, .	9.0	11
81	A Dendrite-Resistant Zinc-Air Battery. IScience, 2020, 23, 101169.	3.6	32
82	Iridium single-atom catalyst on nitrogen-doped carbon for formic acid oxidation synthesized using a general hostâ€“guest strategy. Nature Chemistry, 2020, 12, 764-772.	18.8	666
83	Coupling N2 and CO2 in H2O to synthesize urea under ambient conditions. Nature Chemistry, 2020, 12, 717-724.	18.8	943
84	Dopamine polymer derived isolated single-atom site metals/N-doped porous carbon for benzene oxidation. Chemical Communications, 2020, 56, 8916-8919.	3.4	30
85	Fabricating Pd isolated single atom sites on C3N4/rGO for heterogenization of homogeneous catalysis. Nano Research, 2020, 13, 947-951.	8.6	89
86	Two-Dimensional SnO₂ Nanosheets for Efficient Carbon Dioxide Electroreduction to Formate. ACS Sustainable Chemistry and Engineering, 2020, 8, 4975-4982.	6.9	88
87	Single-atom Rh/N-doped carbon electrocatalyst for formic acid oxidation. Nature Nanotechnology, 2020, 15, 390-397.	33.5	576
88	Atomic site electrocatalysts for water splitting, oxygen reduction and selective oxidation. Chemical Society Reviews, 2020, 49, 2215-2264.	37.8	794
89	MOF derived high-density atomic platinum heterogeneous catalyst for Câ€“H bond activation. Materials Chemistry Frontiers, 2020, 4, 1158-1163.	6.1	26
90	Electrocatalyst engineering and structure-activity relationship in hydrogen evolution reaction: From nanostructures to single atoms. Science China Materials, 2020, 63, 921-948.	6.7	93

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91	Single-Atom Au^Iâ€“N₃ Site for Acetylene Hydrochlorination Reaction. ACS Catalysis, 2020, 10, 1865-1870.	12.4	117
92	Tuning Polarity of Cu-O Bond in Heterogeneous Cu Catalyst to Promote Additive-free Hydroboration of Alkynes. CheM, 2020, 6, 725-737.	16.6	109
93	NiPt Nanoparticles Anchored onto Hierarchical Nanoporous N-Doped Carbon as an Efficient Catalyst for Hydrogen Generation from Hydrazine Monohydrate. ACS Applied Materials & Interfaces, 2020, 12, 18617-18624.	8.0	53
94	Porous Î³-Fe2O3 nanoparticle decorated with atomically dispersed platinum: Study on atomic site structural change and gas sensor activity evolution. Nano Research, 2020, 14, 1435-1442.	8.6	76
95	Construction of CoP/NiCoP Nanotadpoles Heterojunction Interface for Wide pH Hydrogen Evolution Electrocatalysis and Supercapacitor. Advanced Energy Materials, 2019, 9, .	22.6	368
96	Isolating contiguous Pt atoms and forming Pt-Zn intermetallic nanoparticles to regulate selectivity in 4-nitrophenylacetylene hydrogenation. Nature Communications, 2019, 10, .	13.9	187
97	Interfacial effects in supported catalysts for electrocatalysis. Journal of Materials Chemistry A, 2019, 7, 23432-23450.	9.3	131
98	Three-dimensional open nano-netcage electrocatalysts for efficient pH-universal overall water splitting. Nature Communications, 2019, 10, .	13.9	346
99	PdAg bimetallic electrocatalyst for highly selective reduction of CO2 with low COOH* formation energy and facile CO desorption. Nano Research, 2019, 12, 2866-2871.	8.6	78
100	Reaction: Open Up the Era of Atomically Precise Catalysis. CheM, 2019, 5, 2737-2739.	16.6	15
101	Isolated Iron Single-Atomic Site-Catalyzed Chemoselective Transfer Hydrogenation of Nitroarenes to Arylamines. ACS Applied Materials & Interfaces, 2019, 11, 33819-33824.	8.0	112
102	Regulating the coordination structure of single-atom Fe-NxCy catalytic sites for benzene oxidation. Nature Communications, 2019, 10, .	13.9	458
103	Bismuth Single Atoms Resulting from Transformation of Metalâ€“Organic Frameworks and Their Use as Electrocatalysts for CO₂ Reduction. Journal of the American Chemical Society, 2019, 141, 16569-16573.	15.0	718
104	Copper atom-pair catalyst anchored on alloy nanowires for selective and efficient electrochemical reduction of CO2. Nature Chemistry, 2019, 11, 222-228.	18.8	757
105	Topological self-template directed synthesis of multi-shelled intermetallic Ni₃Ga hollow microspheres for the selective hydrogenation of alkyne. Chemical Science, 2019, 10, 614-619.	7.1	36
106	MXene (Ti₃C₂) Vacancy-Confined Single-Atom Catalyst for Efficient Functionalization of CO₂. Journal of the American Chemical Society, 2019, 141, 4086-4093.	15.0	709
107	A General Strategy for Fabricating Isolated Single Metal Atomic Site Catalysts in Y Zeolite. Journal of the American Chemical Society, 2019, 141, 9305-9311.	15.0	268
108	High-Concentration Single Atomic Pt Sites on Hollow CuSx for Selective O2 Reduction to H2O2 in Acid Solution. CheM, 2019, 5, 2099-2110.	16.6	384

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109	Convenient fabrication of BiOBr ultrathin nanosheets with rich oxygen vacancies for photocatalytic selective oxidation of secondary amines. Nano Research, 2019, 12, 1625-1630.	8.6	121
110	Nitrogen-coordinated cobalt nanocrystals for oxidative dehydrogenation and hydrogenation of N-heterocycles. Chemical Science, 2019, 10, 5345-5352.	7.1	72
111	Selective hydrogenation of N-heterocyclic compounds over rhodium-copper bimetallic nanocrystals under ambient conditions. Nano Research, 2019, 12, 1631-1634.	8.6	24
112	Atomically Dispersed Ruthenium Species Inside Metalâ€“Organic Frameworks: Combining the High Activity of Atomic Sites and the Molecular Sieving Effect of MOFs. Angewandte Chemie - International Edition, 2019, 58, 4271-4275.	14.4	220
113	Atomically Dispersed Ruthenium Species Inside Metalâ€“Organic Frameworks: Combining the High Activity of Atomic Sites and the Molecular Sieving Effect of MOFs. Angewandte Chemie, 2019, 131, 4315-4319.	1.4	34
114	The design of hollow PdOâ€“Co₃O₄ nano-dodecahedrons with moderate catalytic activity for Liâ€“O₂ batteries. Chemical Communications, 2019, 55, 12683-12686.	3.4	26
115	Tuning the Coordination Environment in Single-Atom Catalysts to Achieve Highly Efficient Oxygen Reduction Reactions. Journal of the American Chemical Society, 2019, 141, 20118-20126.	15.0	943
116	Electronic structure and d-band center control engineering over M-doped CoP (Mâ€¯=â€¯Ni, Mn, Fe) hollow polyhedron frames for boosting hydrogen production. Nano Energy, 2019, 56, 411-419.	16.3	533
117	Revealing the Active Species for Aerobic Alcohol Oxidation by Using Uniform Supported Palladium Catalysts. Angewandte Chemie - International Edition, 2018, 57, 4642-4646.	14.4	117
118	Porous organic cage stabilised palladium nanoparticles: efficient heterogeneous catalysts for carbonylation reaction of aryl halides. Chemical Communications, 2018, 54, 2796-2799.	3.4	79
119	A Polymer Encapsulation Strategy to Synthesize Porous Nitrogenâ€Doped Carbonâ€Nanosphereâ€Supported Metal Isolatedâ€Singleâ€Atomicâ€Site Catalysts. Advanced Materials, 2018, 30, .	24.5	289
120	Design of Single-Atom Coâ€“N₅ Catalytic Site: A Robust Electrocatalyst for CO₂ Reduction with Nearly 100% CO Selectivity and Remarkable Stability. Journal of the American Chemical Society, 2018, 140, 4218-4221.	15.0	1,177
121	Revealing the Active Species for Aerobic Alcohol Oxidation by Using Uniform Supported Palladium Catalysts. Angewandte Chemie, 2018, 130, 4732-4736.	1.4	38
122	Cation vacancy stabilization of single-atomic-site Pt1/Ni(OH)x catalyst for diboration of alkynes and alkenes. Nature Communications, 2018, 9, .	13.9	319
123	PtAl truncated octahedron nanocrystals for improved formic acid electrooxidation. Chemical Communications, 2018, 54, 3951-3954.	3.4	15
124	Sub-nm ruthenium cluster as an efficient and robust catalyst for decomposition and synthesis of ammonia: Break the â€œsize shacklesâ€. Nano Research, 2018, 11, 4774-4785.	8.6	85
125	Coreâ€“Shell ZIF-8@ZIF-67-Derived CoP Nanoparticle-Embedded N-Doped Carbon Nanotube Hollow Polyhedron for Efficient Overall Water Splitting. Journal of the American Chemical Society, 2018, 140, 2610-2618.	15.0	1,892
126	Preparation of freestanding palladium nanosheets modified with gold nanoparticles at edges. Nano Research, 2018, 11, 4142-4148.	8.6	15

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127	Strain Engineering to Enhance the Electrooxidation Performance of Atomic-Layer Pt on Intermetallic Pt₃Ga. Journal of the American Chemical Society, 2018, 140, 2773-2776.	15.0	253
128	Defect Effects on TiO₂ Nanosheets: Stabilizing Single Atomic Site Au and Promoting Catalytic Properties. Advanced Materials, 2018, 30, .	24.5	969
129	Implication of iron nitride species to enhance the catalytic activity and stability of carbon nanotubes supported Fe catalysts for carbon-free hydrogen production via low-temperature ammonia decomposition. Catalysis Science and Technology, 2018, 8, 907-915.	4.0	69
130	Fe Isolated Single Atoms on S, N Codoped Carbon by Copolymer Pyrolysis Strategy for Highly Efficient Oxygen Reduction Reaction. Advanced Materials, 2018, 30, .	24.5	609
131	Singleâ€Site Au^I Catalyst for Silane Oxidation with Water. Advanced Materials, 2018, 30, .	24.5	135
132	Ultrathin Ptâ€“Zn Nanowires: High-Performance Catalysts for Electrooxidation of Methanol and Formic Acid. ACS Sustainable Chemistry and Engineering, 2018, 6, 77-81.	6.9	57
133	Synergistic effect of bimetallic PdAu nanocrystals on oxidative alkyne homocoupling. Chemical Communications, 2018, 54, 13155-13158.	3.4	31
134	Accelerating water dissociation kinetics by isolating cobalt atoms into ruthenium lattice. Nature Communications, 2018, 9, .	13.9	343
135	Enhanced oxygen reduction with single-atomic-site iron catalysts for a zinc-air battery and hydrogen-air fuel cell. Nature Communications, 2018, 9, .	13.9	908
136	Single-atomic cobalt sites embedded in hierarchically ordered porous nitrogen-doped carbon as a superior bifunctional electrocatalyst. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12692-12697.	7.6	389
137	Toward Bifunctional Overall Water Splitting Electrocatalyst: General Preparation of Transition Metal Phosphide Nanoparticles Decorated N-Doped Porous Carbon Spheres. ACS Applied Materials & Interfaces, 2018, 10, 44201-44208.	8.0	87
138	Single platinum atoms immobilized on an MXene as an efficient catalyst for the hydrogen evolution reaction. Nature Catalysis, 2018, 1, 985-992.	41.5	1,706
139	A cocoon silk chemistry strategy to ultrathin N-doped carbon nanosheet with metal single-site catalysts. Nature Communications, 2018, 9, .	13.9	251
140	Constructing NiCo/Fe₃O₄ Heteroparticles within MOF-74 for Efficient Oxygen Evolution Reactions. Journal of the American Chemical Society, 2018, 140, 15336-15341.	15.0	400
141	A photochromic composite with enhanced carrier separation for the photocatalytic activation of benzylic Câ€“H bonds in toluene. Nature Catalysis, 2018, 1, 704-710.	41.5	424
142	One-Pot Pyrolysis to N-Doped Graphene with High-Density Pt Single Atomic Sites as Heterogeneous Catalyst for Alkene Hydrosilylation. ACS Catalysis, 2018, 8, 10004-10011.	12.4	146
143	Temperature-Controlled Selectivity of Hydrogenation and Hydrodeoxygenation in the Conversion of Biomass Molecule by the Ru₁/mpg-C₃N₄ Catalyst. Journal of the American Chemical Society, 2018, 140, 11161-11164.	15.0	252
144	Ordered Porous Nitrogenâ€Doped Carbon Matrix with Atomically Dispersed Cobalt Sites as an Efficient Catalyst for Dehydrogenation and Transfer Hydrogenation of Nâ€Heterocycles. Angewandte Chemie, 2018, 130, 11432-11436.	1.4	27

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145	Ordered Porous Nitrogenâ€Doped Carbon Matrix with Atomically Dispersed Cobalt Sites as an Efficient Catalyst for Dehydrogenation and Transfer Hydrogenation of Nâ€Heterocycles. Angewandte Chemie - International Edition, 2018, 57, 11262-11266.	14.4	198
146	MOFâ€Confined Subâ€2 nm Atomically Ordered Intermetallic PdZn Nanoparticles as Highâ€Performance Catalysts for Selective Hydrogenation of Acetylene. Advanced Materials, 2018, 30, .	24.5	179
147	Electronic structure engineering to boost oxygen reduction activity by controlling the coordination of the central metal. Energy and Environmental Science, 2018, 11, 2348-2352.	30.9	434
148	Porphyrin-like Fe-N4 sites with sulfur adjustment on hierarchical porous carbon for different rate-determining steps in oxygen reduction reaction. Nano Research, 2018, 11, 6260-6269.	8.6	140
149	Scaleâ€Up Biomass Pathway to Cobalt Singleâ€Site Catalysts Anchored on Nâ€Doped Porous Carbon Nanobelt with Ultrahigh Surface Area. Advanced Functional Materials, 2018, 28, .	17.0	154
150	Quantitative Study of Charge Carrier Dynamics in Well-Defined WO₃ Nanowires and Nanosheets: Insight into the Crystal Facet Effect in Photocatalysis. Journal of the American Chemical Society, 2018, 140, 9078-9082.	15.0	285
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