Li Rong Zheng

List of Publications by Year
in descending order

361 papers	46,647 citations	1713 107 h-index	2402 204 g-index
366 all docs	366 docs citations	366 times ranked	34820 citing authors

#	Article	IF	Citations
1	Ionic-liquid-assisted synthesis of metal single-atom catalysts for benzene oxidation to phenol. Science China Materials, 2022, 65, 163-169.	3.5	13
2	Ambient Electrochemical Nitrogen Fixation over a Bifunctional Moâ€“(Oâ€“C₂)₄ Site Catalyst. Journal of Physical Chemistry C, 2022, 126, 965-973.	1.5	15
3	Deeply self-reconstructing CoFe(H3O)(PO4)2 to low-crystalline Fe0.5Co0.5OOH with Fe3+â€“Oâ€“Fe3+ motifs for oxygen evolution reaction. Applied Catalysis B: Environmental, 2022, 304, 120986.	10.8	36
4	Ultra-small Ru nanoparticles embedded on Feâ€“Ni(OH)₂ nanosheets for efficient water splitting at a large current density with long-term stability of 680 hours. Journal of Materials Chemistry A, 2022, 10, 4817-4824.	5.2	46
5	Elucidating the activity, mechanism and application of selective electrosynthesis of ammonia from nitrate on cobalt phosphide. Energy and Environmental Science, 2022, 15, 760-770.	15.6	133
6	Siteâ€Specific Axial Oxygen Coordinated FeN₄ Active Sites for Highly Selective Electroreduction of Carbon Dioxide. Advanced Functional Materials, 2022, 32, .	7.8	38
7	Spatial porosity design of Feâ€“Nâ€“C catalysts for high power density PEM fuel cells and detection of water saturation of the catalyst layer by a microwave method. Journal of Materials Chemistry A, 2022, 10, 7764-7772.	5.2	11
8	Efficient ambient ammonia synthesis by Lewis acid pair over cobalt single atom catalyst with suppressed proton reduction. Journal of Materials Chemistry A, 2022, 10, 8432-8439.	5.2	11
9	Oxygen vacancy content drives self-reduction and anti-thermal quenching. Journal of Materials Chemistry C, 2022, 10, 4317-4326.	2.7	20
10	Intense Luminescence and Good Thermal Stability in a Mn²⁺-Activated Mg-Based Phosphor with Self-Reduction. Inorganic Chemistry, 2022, 61, 5495-5501.	1.9	13
11	The performance of an atomically dispersed oxygen reduction catalyst prepared by Î³-CD-MOF integration with FePc. Nanoscale Advances, 2022, 4, 2171-2179.	2.2	2
12	Ligand Charge Donationâ€“Acquisition Balance: A Unique Strategy to Boost Single Pt Atom Catalyst Mass Activity toward the Hydrogen Evolution Reaction. ACS Catalysis, 2022, 12, 5970-5978.	5.5	18
13	Platinum nanoclusters by atomic layer deposition on three-dimensional TiO2 nanotube array for efficient hydrogen evolution. Materials Today Energy, 2022, 27, 101042.	2.5	8
14	Iron atomâ€“cluster interactions increase activity and improve durability in Feâ€“Nâ€“C fuel cells. Nature Communications, 2022, 13, .	5.8	159
15	High-content atomically distributed W(<scp>v</scp>,<scp>vi</scp>) on FeCo layered double hydroxide with high oxygen evolution reaction activity. Chemical Communications, 2022, 58, 7678-7681.	2.2	5
16	Integrating single Co sites into crystalline covalent triazine frameworks for photoreduction of CO₂. Chemical Communications, 2022, 58, 8121-8124.	2.2	13
17	Electron-Deficient Pd clusters induced by spontaneous reduction of support defect for selective phenol hydrogenation. Chemical Engineering Science, 2022, 260, 117867.	1.9	2
18	3D N-doped ordered mesoporous carbon supported single-atom Fe-N-C catalysts with superior performance for oxygen reduction reaction and zinc-air battery. Applied Catalysis B: Environmental, 2021, 280, 119411.	10.8	324

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19	Anomalous self-optimization of sulfate ions for boosted oxygen evolution reaction. Science Bulletin, 2021, 66, 553-561.	4.3	30
20	Operando X-ray spectroscopy visualizing the chameleon-like structural reconstruction on an oxygen evolution electrocatalyst. Energy and Environmental Science, 2021, 14, 906-915.	15.6	93
21	Unraveling the real active sites of an amorphous silicaâ€“alumina-supported nickel catalyst for highly efficient ethylene oligomerization. Catalysis Science and Technology, 2021, 11, 1510-1518.	2.1	16
22	Coordination Number Regulation of Molybdenum Single-Atom Nanozyme Peroxidase-like Specificity. CheM, 2021, 7, 436-449.	5.8	216
23	Engineering defect-rich Fe-doped NiO coupled Ni cluster nanotube arrays with excellent oxygen evolution activity. Applied Catalysis B: Environmental, 2021, 285, 119809.	10.8	103
24	Highly durable Cuâ€“Nâ€“C active sites towards efficient oxygen reduction for zinc-air battery: Carbon matrix effect, reaction mechanism and pathways. Journal of Alloys and Compounds, 2021, 857, 158321.	2.8	12
25	Self-supported bifunctional electrocatalysts with Ni nanoparticles encapsulated in vertical N-doped carbon nanotube for efficient overall water splitting. Chemical Engineering Journal, 2021, 413, 127531.	6.6	43
26	N coupling with S-coordinated Ru nanoclusters for highly efficient hydrogen evolution in alkaline media. Journal of Materials Chemistry A, 2021, 9, 12659-12669.	5.2	26
27	Direct synthesis of 1T-phase MoS₂ nanosheets with abundant sulfur-vacancies through (CH₃)₄N⁺ cation-intercalation for the hydrogen evolution reaction. Journal of Materials Chemistry A, 2021, 9, 13996-14003.	5.2	17
28	A rational design of an efficient counter electrode with the Co/Co₁P₁N₃ atomic interface for promoting catalytic performance. Materials Chemistry Frontiers, 2021, 5, 3085-3092.	3.2	8
29	N-Induced Electron Transfer Effect on Low-Temperature Activation of Nitrogen for Ammonia Synthesis over Co-Based Catalysts. ACS Sustainable Chemistry and Engineering, 2021, 9, 1529-1539.	3.2	11
30	Solution-processable nickelâ€“chromium ternary oxide as an efficient hole transport layer for inverted planar perovskite solar cells. Journal of Materials Chemistry A, 2021, 9, 21792-21798.	5.2	8
31	Quasi-double-star nickel and iron active sites for high-efficiency carbon dioxide electroreduction. Energy and Environmental Science, 2021, 14, 4847-4857.	15.6	43
32	A low-valent cobalt oxide co-catalyst to boost photocatalytic water oxidation via enhanced hole-capturing ability. Journal of Materials Chemistry A, 2021, 9, 14786-14792.	5.2	18
33	Coordinately unsaturated O_{2c}â€“Ti_{5c}â€“O_{2c} sites promote the reactivity of Pt/TiO₂ catalysts in the solvent-free oxidation of n-octanol. Catalysis Science and Technology, 2021, 11, 4898-4910.	2.1	6
34	Air atmospheric photocatalytic oxidation by ultrathin C,N-TiO₂nanosheets. Green Chemistry, 2021, 23, 1165-1170.	4.6	13
35	The in situ study of surface species and structures of oxide-derived copper catalysts for electrochemical CO₂ reduction. Chemical Science, 2021, 12, 5938-5943.	3.7	40
36	Monomeric vanadium oxide: a very efficient species for promoting aerobic oxidative dehydrogenation of N-heterocycles. New Journal of Chemistry, 2021, 45, 431-437.	1.4	1

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37	Atomically Dispersed Feâ€“Heteroatom (N, S) Bridge Sites Anchored on Carbon Nanosheets for Promoting Oxygen Reduction Reaction. ACS Energy Letters, 2021, 6, 379-386.	8.8	167
38	Mitigating the P2â€“O2 transition and Na⁺/vacancy ordering in Na_{2/3}Ni_{1/3}Mn_{2/3}O₂ by anion/cation dual-doping for fast and stable Na⁺ insertion/extraction. Journal of Materials Chemistry A, 2021, 9, 10803-10811.	5.2	23
39	A novel Fe/N/C electrocatalyst prepared from a carbon-supported iron(ii) complex of macrocyclic ligands for oxygen reduction reaction. RSC Advances, 2021, 11, 8437-8443.	1.7	5
40	Identifying the Activity Origin of a Cobalt Singleâ€Atom Catalyst for Hydrogen Evolution Using Supervised Learning. Advanced Functional Materials, 2021, 31, 2100547.	7.8	93
41	Construction of Dualâ€Activeâ€Site Copper Catalyst Containing both Cuï£¿N₃ and Cuï£¿N₄ Sites. Small, 2021, 17, e2006834.	5.2	52
42	Rational design of ultrahigh loading metal single-atoms (Co, Ni, Mo) anchored on in-situ pre-crosslinked guar gum derived N-doped carbon aerogel for efficient overall water splitting. Chemical Engineering Journal, 2021, 410, 128359.	6.6	41
43	Electrochemical Construction of Low-Crystalline CoOOH Nanosheets with Short-Range Ordered Grains to Improve Oxygen Evolution Activity. ACS Catalysis, 2021, 11, 6104-6112.	5.5	103
44	Defectâ€Induced Selfâ€Reduction and Antiâ€Thermal Quenching in NaZn(PO₃)₃:Mn²⁺ Red Phosphor. Advanced Optical Materials, 2021, 9, 2100870.	3.6	69
45	Engineering local coordination environment of atomically dispersed platinum catalyst via lattice distortion of support for efficient hydrogen evolution reaction. Materials Today Energy, 2021, 20, 100653.	2.5	19
46	Fabricating polyoxometalates-stabilized single-atom site catalysts in confined space with enhanced activity for alkynes diboration. Nature Communications, 2021, 12, 4205.	5.8	69
47	Self-assembled iron-containing mordenite monolith for carbon dioxide sieving. Science, 2021, 373, 315-320.	6.0	179
48	Sustainable production of benzene from lignin. Nature Communications, 2021, 12, 4534.	5.8	100
49	Two Types of Single-Atom FeN₄ and FeN₅ Electrocatalytic Active Centers on N-Doped Carbon Driving High Performance of the SA-Fe-NC Oxygen Reduction Reaction Catalyst. Chemistry of Materials, 2021, 33, 5542-5554.	3.2	59
50	Electrocatalytic upcycling of polyethylene terephthalate to commodity chemicals and H2 fuel. Nature Communications, 2021, 12, 4679.	5.8	226
51	Selfâ€Organized Co₃O₄â€SrCO₃ Percolative Composites Enabling Nanosized Hole Transport Pathways for Perovskite Solar Cells. Advanced Functional Materials, 2021, 31, 2106121.	7.8	18
52	Hydrogen Passivation of Mâ€“Nâ€“C (M = Fe, Co) Catalysts for Storage Stability and ORR Activity Improvements. Advanced Materials, 2021, 33, e2103600.	11.1	81
53	Interfacial Bifunctional Effect Promoted Non-Noble Cu/Fe_yMgO_x Catalysts for Selective Hydrogenation of Acetylene. ACS Catalysis, 2021, 11, 11117-11128.	5.5	24
54	Hydrothermally modified nanosheet ZSM-5 with MnOx nanoparticles and its high MTP performance. Microporous and Mesoporous Materials, 2021, 326, 111374.	2.2	6

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55	Dual active site tandem catalysis of metal hydroxyl oxides and single atoms for boosting oxygen evolution reaction. Applied Catalysis B: Environmental, 2021, 297, 120451.	10.8	44
56	Copper single-atom catalysts with photothermal performance and enhanced nanozyme activity for bacteriaâ€infected wound therapy. Bioactive Materials, 2021, 6, 4389-4401.	8.6	194
57	Integration of single Co atoms and Ru nanoclusters boosts the cathodic performance of nitrogen-doped 3D graphene in lithiumâ€“oxygen batteries. Journal of Materials Chemistry A, 2021, 9, 10747-10757.	5.2	31
58	Tuning and understanding the electronic effect of Coâ€“Moâ€“O sites in bifunctional electrocatalysts for ultralong-lasting rechargeable zincâ€“air batteries. Journal of Materials Chemistry A, 2021, 9, 21716-21722.	5.2	16
59	Propelling polysulfide redox conversion by d-band modulation for high sulfur loading and low temperature lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2021, 9, 18526-18536.	5.2	39
60	Photocatalytic carbon dioxide reduction coupled with benzylamine oxidation over Zn-Bi₂WO₆ microflowers. Green Chemistry, 2021, 23, 2913-2917.	4.6	19
61	Constructing single Cuâ€“N₃ sites for CO₂ electrochemical reduction over a wide potential range. Green Chemistry, 2021, 23, 5461-5466.	4.6	22
62	N-Bridged Coâ€“Nâ€“Ni: new bimetallic sites for promoting electrochemical CO₂ reduction. Energy and Environmental Science, 2021, 14, 3019-3028.	15.6	128
63	Decreasing the coordinated N atoms in a single-atom Cu catalyst to achieve selective transfer hydrogenation of alkynes. Chemical Science, 2021, 12, 14599-14605.	3.7	20
64	Engineering the Atomic Interface with Single Platinum Atoms for Enhanced Photocatalytic Hydrogen Production. Angewandte Chemie - International Edition, 2020, 59, 1295-1301.	7.2	344
65	Atomically dispersed ruthenium sites on whisker-like secondary microstructure of porous carbon host toward highly efficient hydrogen evolution. Journal of Materials Chemistry A, 2020, 8, 3203-3210.	5.2	20
66	Ultralongâ€Life Chloride Ion Batteries Achieved by the Synergistic Contribution of Intralayer Metals in Layered Double Hydroxides. Advanced Functional Materials, 2020, 30, 1907448.	7.8	47
67	A sacrificial Zn strategy enables anchoring of metal single atoms on the exposed surface of holey 2D molybdenum carbide nanosheets for efficient electrocatalysis. Journal of Materials Chemistry A, 2020, 8, 3071-3082.	5.2	48
68	Regulating the Coordination Environment of MOFâ€Templated Singleâ€Atom Nickel Electrocatalysts for Boosting CO₂ Reduction. Angewandte Chemie - International Edition, 2020, 59, 2705-2709.	7.2	404
69	Nitrogen-Stabilized Low-Valent Ni Motifs for Efficient CO₂ Electrocatalysis. ACS Catalysis, 2020, 10, 1086-1093.	5.5	101
70	Iron-regulated NiPS for enhanced oxygen evolution efficiency. Journal of Materials Chemistry A, 2020, 8, 23580-23589.	5.2	30
71	Dynamic evolution of isolated Ruâ€“FeP atomic interface sites for promoting the electrochemical hydrogen evolution reaction. Journal of Materials Chemistry A, 2020, 8, 22607-22612.	5.2	36
72	BiOCl nanosheets with periodic nanochannels for high-efficiency photooxidation. Nano Energy, 2020, 78, 105340.	8.2	70

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73	Controlling N-doping type in carbon to boost single-atom site Cu catalyzed transfer hydrogenation of quinoline. Nano Research, 2020, 13, 3082-3087.	5.8	215
74	Improved catalytic performance of Co-MOF-74 by nanostructure construction. Green Chemistry, 2020, 22, 5995-6000.	4.6	29
75	Hierarchically macroâ€“mesoâ€“microporous metalâ€“organic framework for photocatalytic oxidation. Chemical Communications, 2020, 56, 10754-10757.	2.2	13
76	Copper Isolated Sites on N-Doped Carbon Nanoframes for Efficient Oxygen Reduction. ACS Sustainable Chemistry and Engineering, 2020, 8, 14030-14038.	3.2	27
77	A Mn-N3 single-atom catalyst embedded in graphitic carbon nitride for efficient CO2 electroreduction. Nature Communications, 2020, 11, 4341.	5.8	257
78	Silica nanoparticles alleviate mercury toxicity via immobilization and inactivation of Hg(<scp>ii</scp>) in soybean (Glycine max). Environmental Science: Nano, 2020, 7, 1807-1817.	2.2	48
79	Electrocatalytically Active Feâ€(Oâ€C₂)₄ Singleâ€Atom Sites for Efficient Reduction of Nitrogen to Ammonia. Angewandte Chemie - International Edition, 2020, 59, 13423-13429.	7.2	161
80	Removing the barrier to water dissociation on single-atom Pt sites decorated with a CoP mesoporous nanosheet array to achieve improved hydrogen evolution. Journal of Materials Chemistry A, 2020, 8, 11246-11254.	5.2	62
81	Coordination structure dominated performance of single-atomic Pt catalyst for anti-Markovnikov hydroboration of alkenes. Science China Materials, 2020, 63, 972-981.	3.5	74
82	Single Atoms Anchored on Cobalt-Based Catalysts Derived from Hydrogels Containing Phthalocyanine toward the Oxygen Reduction Reaction. ACS Sustainable Chemistry and Engineering, 2020, 8, 8338-8347.	3.2	21
83	Improved photocatalytic performance of metalâ€“organic frameworks for CO₂ conversion by ligand modification. Chemical Communications, 2020, 56, 7637-7640.	2.2	21
84	Electrocatalytically Active Feâ€(Oâ€C₂)₄ Singleâ€Atom Sites for Efficient Reduction of Nitrogen to Ammonia. Angewandte Chemie, 2020, 132, 13525-13531.	1.6	23
85	NiMn-Cl Layered Double Hydroxide/Carbon Nanotube Networks for High-Performance Chloride Ion Batteries. ACS Applied Energy Materials, 2020, 3, 4559-4568.	2.5	47
86	Carbon black-supported FMâ€“Nâ€“C (FM = Fe, Co, and Ni) single-atom catalysts synthesized by the self-catalysis of oxygen-coordinated ferrous metal atoms. Journal of Materials Chemistry A, 2020, 8, 13166-13172.	5.2	27
87	Atomically Dispersed Fe-N4 Modified with Precisely Located S for Highly Efficient Oxygen Reduction. Nano-Micro Letters, 2020, 12, 116.	14.4	99
88	Engineering unsymmetrically coordinated Cu-S1N3 single atom sites with enhanced oxygen reduction activity. Nature Communications, 2020, 11, 3049.	5.8	537
89	Dopamine polymer derived isolated single-atom site metals/N-doped porous carbon for benzene oxidation. Chemical Communications, 2020, 56, 8916-8919.	2.2	18
90	Creation of CuO_x/ZSM-5 zeolite complex: healing defect sites and boosting acidic stability and catalytic activity. Catalysis Science and Technology, 2020, 10, 4981-4989.	2.1	8

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91	High-performance, long lifetime chloride ion battery using a NiFeâ€“Cl layered double hydroxide cathode. Journal of Materials Chemistry A, 2020, 8, 12548-12555.	5.2	47
92	Engineering Isolated Mnâ€“N₂C₂ Atomic Interface Sites for Efficient Bifunctional Oxygen Reduction and Evolution Reaction. Nano Letters, 2020, 20, 5443-5450.	4.5	249
93	Highly Efficient Electroreduction of CO₂ to C2+ Alcohols on Heterogeneous Dual Active Sites. Angewandte Chemie - International Edition, 2020, 59, 16459-16464.	7.2	148
94	CO2 controls the oriented growth of metal-organic framework with highly accessible active sites. Nature Communications, 2020, 11, 1431.	5.8	51
95	Fabricating Pd isolated single atom sites on C3N4/rGO for heterogenization of homogeneous catalysis. Nano Research, 2020, 13, 947-951.	5.8	65
96	NiFe saponite as a new anode material for high-performance lithium-ion batteries. Journal of Materials Chemistry A, 2020, 8, 6539-6545.	5.2	9
97	Potential-Dependent Phase Transition and Mo-Enriched Surface Reconstruction of Î³-CoOOH in a Heterostructured Co-Mo₂C Precatalyst Enable Water Oxidation. ACS Catalysis, 2020, 10, 4411-4419.	5.5	174
98	Fabrication of NH₂-MIL-125 nanocrystals for high performance photocatalytic oxidation. Sustainable Energy and Fuels, 2020, 4, 2823-2830.	2.5	27
99	Immobilization of mercury by nano-elemental selenium and the underlying mechanisms in hydroponic-cultured garlic plant. Environmental Science: Nano, 2020, 7, 1115-1125.	2.2	28
100	A new concept analogous to homogeneous catalysis to construct in-situ regenerative electrodes for long-term oxygen evolution reaction. Nano Energy, 2020, 76, 105115.	8.2	14
101	Laser Irradiation in Liquid to Release Cobalt Single-Atom Sites for Efficient Electrocatalytic N2 Reduction. ACS Applied Energy Materials, 2020, 3, 6079-6086.	2.5	19
102	Multi-shelled CuO microboxes for carbon dioxide reduction to ethylene. Nano Research, 2020, 13, 768-774.	5.8	60
103	Tuning Polarity of Cu-O Bond in Heterogeneous Cu Catalyst to Promote Additive-free Hydroboration of Alkynes. CheM, 2020, 6, 725-737.	5.8	87
104	Rare Earth Single-Atom Catalysts for Nitrogen and Carbon Dioxide Reduction. ACS Nano, 2020, 14, 1093-1101.	7.3	198
105	Sequential Synthesis and Activeâ€Site Coordination Principle of Precious Metal Singleâ€Atom Catalysts for Oxygen Reduction Reaction and PEM Fuel Cells. Advanced Energy Materials, 2020, 10, 2000689.	10.2	92
106	Charge redistribution within platinumâ€“nitrogen coordination structure to boost hydrogen evolution. Nano Energy, 2020, 73, 104739.	8.2	55
107	Interstitial oxygen defect induced mechanoluminescence in KCa(PO₃)₃:Mn²⁺. Journal of Materials Chemistry C, 2020, 8, 6587-6594.	2.7	25
108	Delocalized electron effect on single metal sites in ultrathin conjugated microporous polymer nanosheets for boosting CO ₂ cycloaddition. Science Advances, 2020, 6, eaaz4824.	4.7	68

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109	Construction of tetrahedral CoO₄ vacancies for activating the high oxygen evolution activity of Co_{3â^'x}O_{4â^Î´} porous nanosheet arrays. Nanoscale, 2020, 12, 11079-11087.	2.8	35
110	Effective removal of U(VI) and Eu(III) by carboxyl functionalized MXene nanosheets. Journal of Hazardous Materials, 2020, 396, 122731.	6.5	166
111	Boron-doped CuO nanobundles for electroreduction of carbon dioxide to ethylene. Green Chemistry, 2020, 22, 2750-2754.	4.6	39
112	Physically Adsorbed Metal Ions in Porous Supports as Electrocatalysts for Oxygen Evolution Reaction. Advanced Functional Materials, 2020, 30, 1909889.	7.8	32
113	Oxygen-Reconstituted Active Species of Single-Atom Cu Catalysts for Oxygen Reduction Reaction. Research, 2020, 2020, 7593023.	2.8	21
114	Isolated zinc in mordenite stabilizing carbonylation of dimethyl ether to methyl acetate. Chinese Chemical Letters, 2019, 30, 513-516.	4.8	16
115	Niâ€“Coâ€“O hole transport materials: gap state assisted hole extraction with superior electrical conductivity. Journal of Materials Chemistry A, 2019, 7, 20905-20910.	5.2	23
116	Isolating contiguous Pt atoms and forming Pt-Zn intermetallic nanoparticles to regulate selectivity in 4-nitrophenylacetylene hydrogenation. Nature Communications, 2019, 10, 3787.	5.8	119
117	Ultrathin atomic Mn-decorated formamide-converted N-doped carbon for efficient oxygen reduction reaction. Nanoscale, 2019, 11, 15900-15906.	2.8	43
118	CoFeâ€“Cl Layered Double Hydroxide: A New Cathode Material for Highâ€Performance Chloride Ion Batteries. Advanced Functional Materials, 2019, 29, 1900983.	7.8	83
119	Significantly improved Li-ion diffusion kinetics and reversibility of Li₂O in a MoO₂ anode: the effects of oxygen vacancy-induced local charge distribution and metal catalysis on lithium storage. Journal of Materials Chemistry A, 2019, 7, 17570-17580.	5.2	38
120	Manganese acting as a high-performance heterogeneous electrocatalyst in carbon dioxide reduction. Nature Communications, 2019, 10, 2980.	5.8	235
121	Amorphous Rutheniumâ€Sulfide with Isolated Catalytic Sites for Ptâ€Like Electrocatalytic Hydrogen Production Over Whole pH Range. Small, 2019, 15, e1904043.	5.2	71
122	Boosting Alkaline Hydrogen Evolution Electrocatalysis over Metallic Nickel Sites through Synergistic Coupling with Vanadium Sesquioxide. ChemSusChem, 2019, 12, 5063-5069.	3.6	16
123	General Water-Induced Self-Exfoliation Strategy for the Ultrafast and Large-Scale Synthesis of Metal Hydroxide Nanosheets. Journal of Physical Chemistry Letters, 2019, 10, 6695-6700.	2.1	5
124	Carbon dioxide electroreduction to C2 products over copper-cuprous oxide derived from electrosynthesized copper complex. Nature Communications, 2019, 10, 3851.	5.8	288
125	Synchrotron X-ray Absorption Spectroscopy Study of Local Structure in Al-Doped BiFeO3 Powders. Nanoscale Research Letters, 2019, 14, 137.	3.1	29
126	Regulating the coordination structure of single-atom Fe-NxCy catalytic sites for benzene oxidation. Nature Communications, 2019, 10, 4290.	5.8	326

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127	Plant species-dependent transformation and translocation of ceria nanoparticles. Environmental Science: Nano, 2019, 6, 60-67.	2.2	46
128	Fabrication of 2D metalâ€“organic framework nanosheets with tailorable thickness using bio-based surfactants and their application in catalysis. Green Chemistry, 2019, 21, 54-58.	4.6	66
129	An 2D Polymer Used As Ingredient of Fe/N/C Composite Towards Oxygen Reduction Catalyst In Acidic Medium.. ChemistrySelect, 2019, 4, 884-891.	0.7	3
130	Copper atom-pair catalyst anchored on alloy nanowires for selective and efficient electrochemical reduction of CO2. Nature Chemistry, 2019, 11, 222-228.	6.6	571
131	Activity enhancement of Pt/MnO_x catalyst by novel Î²-MnO₂ for low-temperature CO oxidation: study of the COâ€“O₂ competitive adsorption and active oxygen species. Catalysis Science and Technology, 2019, 9, 347-354.	2.1	33
132	General Method for Synthesis Transitionâ€Metal Phosphide/Nitrogen and Phosphide Doped Carbon Materials with Yolkâ€Shell Structure for Oxygen Reduction Reaction. ChemCatChem, 2019, 11, 1722-1731.	1.8	27
133	A Singleâ€Atom Nanozyme for Wound Disinfection Applications. Angewandte Chemie - International Edition, 2019, 58, 4911-4916.	7.2	607
134	MXene (Ti₃C₂) Vacancy-Confined Single-Atom Catalyst for Efficient Functionalization of CO₂. Journal of the American Chemical Society, 2019, 141, 4086-4093.	6.6	479
135	Achieving efficient and robust catalytic reforming on dual-sites of Cu species. Chemical Science, 2019, 10, 2578-2584.	3.7	56
136	Bacillus subtilis causes dissolution of ceria nanoparticles at the nanoâ€“bio interface. Environmental Science: Nano, 2019, 6, 216-223.	2.2	15
137	Enhanced CO₂ electroreduction via interaction of dangling S bonds and Co sites in cobalt phthalocyanine/ZnIn₂S₄ hybrids. Chemical Science, 2019, 10, 1659-1663.	3.7	45
138	A General Strategy for Fabricating Isolated Single Metal Atomic Site Catalysts in Y Zeolite. Journal of the American Chemical Society, 2019, 141, 9305-9311.	6.6	191
139	Amorphous Cobalt Iron Borate Grown on Carbon Paper as a Precatalyst for Water Oxidation. ChemSusChem, 2019, 12, 3524-3531.	3.6	28
140	Highly Mesoporous Ru-MIL-125-NH₂ Produced by Supercritical Fluid for Efficient Photocatalytic Hydrogen Production. ACS Applied Energy Materials, 2019, 2, 4964-4970.	2.5	37
141	Coordination mode engineering in stacked-nanosheet metalâ€“organic frameworks to enhance catalytic reactivity and structural robustness. Nature Communications, 2019, 10, 2779.	5.8	89
142	Discovery of a new intercalation-type anode for high-performance sodium ion batteries. Journal of Materials Chemistry A, 2019, 7, 15371-15377.	5.2	28
143	Insights into the role of active site density in the fuel cell performance of Co-N-C catalysts. Applied Catalysis B: Environmental, 2019, 256, 117849.	10.8	104
144	Activating Layered Double Hydroxide with Multivacancies by Memory Effect for Energy-Efficient Hydrogen Production at Neutral pH. ACS Energy Letters, 2019, 4, 1412-1418.	8.8	115

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145	Defect Engineering in Two Common Types of Dielectric Materials for Electromagnetic Absorption Applications. Advanced Functional Materials, 2019, 29, 1901236.	7.8	469
146	Coexistence of self-reduction from Mn⁴⁺to Mn²⁺and elastico-mechanoluminescence in diphase KZn(PO₃)₃:Mn²⁺. Journal of Materials Chemistry C, 2019, 7, 7096-7103.	2.7	43
147	Nitrogen-coordinated cobalt nanocrystals for oxidative dehydrogenation and hydrogenation of N-heterocycles. Chemical Science, 2019, 10, 5345-5352.	3.7	60
148	Enhanced CO₂ electroreduction performance over Cl-modified metal catalysts. Journal of Materials Chemistry A, 2019, 7, 12420-12425.	5.2	42
149	A highly efficient alkaline HER Coâ€“Mo bimetallic carbide catalyst with an optimized Mo d-orbital electronic state. Journal of Materials Chemistry A, 2019, 7, 12434-12439.	5.2	58
150	Influence of Surface Charge on the Phytotoxicity, Transformation, and Translocation of CeO₂ Nanoparticles in Cucumber Plants. ACS Applied Materials & Interfaces, 2019, 11, 16905-16913.	4.0	45
151	Ultrathin Co₃O₄ Nanosheets with Edge-Enriched {111} Planes as Efficient Catalysts for Lithiumâ€“Oxygen Batteries. ACS Catalysis, 2019, 9, 3773-3782.	5.5	76
152	Thermal Emitting Strategy to Synthesize Atomically Dispersed Pt Metal Sites from Bulk Pt Metal. Journal of the American Chemical Society, 2019, 141, 4505-4509.	6.6	285
153	Effective Removal of Anionic Re(VII) by Surface-Modified Ti₂CT_x MXene Nanocomposites: Implications for Tc(VII) Sequestration. Environmental Science & Technology, 2019, 53, 3739-3747.	4.6	163
154	Wellâ€Dispersed Nickelâ€•and Zincâ€Tailored Electronic Structure of a Transition Metal Oxide for Highly Active Alkaline Hydrogen Evolution Reaction. Advanced Materials, 2019, 31, e1807771.	11.1	216
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