Lirong Zheng

List of Publications by Year in descending order

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Version: 2024-02-01

1,238	68,367	587 124	1375 222
papers	citations	h-index	g-index

1298	1298	1298	75107
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Single Cobalt Atoms with Precise Nâ€Coordination as Superior Oxygen Reduction Reaction Catalysts. Angewandte Chemie - International Edition, 2016, 55, 10800-10805.	14.8	1,940
2	Isolated Single Iron Atoms Anchored on Nâ€Doped Porous Carbon as an Efficient Electrocatalyst for the Oxygen Reduction Reaction. Angewandte Chemie - International Edition, 2017, 56, 6937-6941.	14.8	1,643
3	Direct observation of noble metal nanoparticles transforming to thermally stable single atoms. Nature Nanotechnology, 2018, 13, 856-861.	30.5	823
4	The psychology and neurobiology of addiction: an incentive-sensitization view. Addiction, 2000, 95, 91-117.	4.8	812
5	Defect Effects on TiO₂ Nanosheets: Stabilizing Single Atomic Site Au and Promoting Catalytic Properties. Advanced Materials, 2018, 30, 1705369.	24.3	809
6	A Voltageâ€Boosting Strategy Enabling a Lowâ€Frequency, Flexible Electromagnetic Wave Absorption Device. Advanced Materials, 2018, 30, e1706343.	24.3	750
7	Enhanced oxygen reduction with single-atomic-site iron catalysts for a zinc-air battery and hydrogen-air fuel cell. Nature Communications, 2018, 9, 5422.	13.2	738
8	The auxin influx carrier LAX3 promotes lateral root emergence. Nature Cell Biology, 2008, 10, 946-954.	10.0	732
9	A Singleâ€Atom Nanozyme for Wound Disinfection Applications. Angewandte Chemie - International Edition, 2019, 58, 4911-4916.	14.8	663
10	Vapor-assisted deposition of highly efficient, stable black-phase FAPbI ₃ perovskite solar cells. Science, 2020, 370, .	20.9	592
11	Hollow N-Doped Carbon Spheres with Isolated Cobalt Single Atomic Sites: Superior Electrocatalysts for Oxygen Reduction. Journal of the American Chemical Society, 2017, 139, 17269-17272.	14.6	588
12	Mapping electrodynamic features of the highâ€latitude ionosphere from localized observations: Technique. Journal of Geophysical Research, 1988, 93, 5741-5759.	3.3	574
13	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.	14.6	570
14	A Health-IoT Platform Based on the Integration of Intelligent Packaging, Unobtrusive Bio-Sensor, and Intelligent Medicine Box. IEEE Transactions on Industrial Informatics, 2014, 10, 2180-2191.	12.1	555
15	Layeredâ€Doubleâ€Hydroxide Nanosheets as Efficient Visibleâ€Lightâ€Driven Photocatalysts for Dinitrogen Fixation. Advanced Materials, 2017, 29, 1703828.	24.3	553
16	Fe Isolated Single Atoms on S, N Codoped Carbon by Copolymer Pyrolysis Strategy for Highly Efficient Oxygen Reduction Reaction. Advanced Materials, 2018, 30, e1800588.	24.3	542
17	Active Site Dependent Reaction Mechanism over Ru/CeO₂ Catalyst toward CO₂ Methanation. Journal of the American Chemical Society, 2016, 138, 6298-6305.	14.6	530
18	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.	14.3	508

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19	Defect Engineering in Two Common Types of Dielectric Materials for Electromagnetic Absorption Applications. Advanced Functional Materials, 2019, 29, 1901236.	16.5	501
20	A Bimetallic Zn/Fe Polyphthalocyanineâ€Derived Singleâ€Atom Feâ€N₄ Catalytic Site:A Superior Trifunctional Catalyst for Overall Water Splitting and Znâ€“Air Batteries. Angewandte Chemie - International Edition, 2018, 57, 8614-8618.	14.8	487
21	Genome-wide Generation and Systematic Phenotyping of Knockout Mice Reveals New Roles for Many Genes. Cell, 2013, 154, 452-464.	27.8	465
22	Regulating the Coordination Environment of MOFâ€Templated Singleâ€Atom Nickel Electrocatalysts for Boosting CO₂ Reduction. Angewandte Chemie - International Edition, 2020, 59, 2705-2709.	14.8	453
23	High-valence metals improve oxygen evolution reaction performance by modulating 3d metal oxidation cycle energetics. Nature Catalysis, 2020, 3, 985-992.	28.3	452
24	Rational Design of Single Molybdenum Atoms Anchored on Nâ€Doped Carbon for Effective Hydrogen Evolution Reaction. Angewandte Chemie - International Edition, 2017, 56, 16086-16090.	14.8	450
25	Cobalt Covalent Doping in MoS₂ to Induce Bifunctionality of Overall Water Splitting. Advanced Materials, 2018, 30, e1801450.	24.3	422
26	Single-atom cobalt array bound to distorted 1T MoS2 with ensemble effect for hydrogen evolution catalysis. Nature Communications, 2019, 10, 5231.	13.2	409
27	Introduction of amino groups into acid-resistant MOFs for enhanced U(<scp>vi</scp>) sorption. Journal of Materials Chemistry A, 2015, 3, 525-534.	10.5	398
28	Single Cobalt Atoms with Precise Nâ€Coordination as Superior Oxygen Reduction Reaction Catalysts. Angewandte Chemie, 2016, 128, 10958-10963.	2.1	392
29	Singleâ€Atom to Singleâ€Atom Grafting of Pt₁ onto Feï£¿N₄ Center: Pt₁@Feï£¿Nï£¿C Multifunctional Electrocatalyst with Significantly Enhanced Properties. Advanced Energy Materials, 2018, 8, 1701345.	22.2	390
30	Regulating Photocatalysis by Spin-State Manipulation of Cobalt in Covalent Organic Frameworks. Journal of the American Chemical Society, 2020, 142, 16723-16731.	14.6	390
31	NiFe Hydroxide Lattice Tensile Strain: Enhancement of Adsorption of Oxygenated Intermediates for Efficient Water Oxidation Catalysis. Angewandte Chemie - International Edition, 2019, 58, 736-740.	14.8	378
32	Engineering the Atomic Interface with Single Platinum Atoms for Enhanced Photocatalytic Hydrogen Production. Angewandte Chemie - International Edition, 2020, 59, 1295-1301.	14.8	372
33	Activating cobalt(II) oxide nanorods for efficient electrocatalysis by strain engineering. Nature Communications, 2017, 8, 1509.	13.2	371
34	Preparation of Highâ€Percentage 1Tâ€Phase Transition Metal Dichalcogenide Nanodots for Electrochemical Hydrogen Evolution. Advanced Materials, 2018, 30, 1705509.	24.3	365
35	Regulating the coordination structure of single-atom Fe-NxCy catalytic sites for benzene oxidation. Nature Communications, 2019, 10, 4290.	13.2	357
36	Electronic structure engineering to boost oxygen reduction activity by controlling the coordination of the central metal. Energy and Environmental Science, 2018, 11, 2348-2352.	32.2	353

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37	Efficient Electrocatalytic Water Oxidation by Using Amorphous Niâ€“Co Double Hydroxides Nanocages. Advanced Energy Materials, 2015, 5, 1401880.	22.2	329
38	Evolutionary Origin and Emergence of a Highly Successful Clone of Serotype M1 Group AStreptococcusInvolved Multiple Horizontal Gene Transfer Events. Journal of Infectious Diseases, 2005, 192, 771-782.	3.9	323
39	Enhanced Photocatalytic Removal of Uranium(VI) from Aqueous Solution by Magnetic TiO₂/Fe₃O₄ and Its Graphene Composite. Environmental Science & Technology, 2017, 51, 5666-5674.	10.5	321
40	Isolated Single Iron Atoms Anchored on Nâ€Doped Porous Carbon as an Efficient Electrocatalyst for the Oxygen Reduction Reaction. Angewandte Chemie, 2017, 129, 7041-7045.	2.1	317
41	Carbon dioxide electroreduction to C2 products over copper-cuprous oxide derived from electrosynthesized copper complex. Nature Communications, 2019, 10, 3851.	13.2	316
42	A general route via formamide condensation to prepare atomically dispersed metalâ€“nitrogenâ€“carbon electrocatalysts for energy technologies. Energy and Environmental Science, 2019, 12, 1317-1325.	32.2	316
43	Platinumâ€“copper single atom alloy catalysts with high performance towards glycerol hydrogenolysis. Nature Communications, 2019, 10, 5812.	13.2	313
44	Thermal Emitting Strategy to Synthesize Atomically Dispersed Pt Metal Sites from Bulk Pt Metal. Journal of the American Chemical Society, 2019, 141, 4505-4509.	14.6	309
45	The Solidâ€Phase Synthesis of an Feâ€Nâ€C Electrocatalyst for Highâ€Power Protonâ€Exchange Membrane Fuel Cells. Angewandte Chemie - International Edition, 2018, 57, 1204-1208.	14.8	304
46	An Adjacent Atomic Platinum Site Enables Singleâ€Atom Iron with High Oxygen Reduction Reaction Performance. Angewandte Chemie - International Edition, 2021, 60, 19262-19271.	14.8	303
47	Electrocatalytic upcycling of polyethylene terephthalate to commodity chemicals and H2 fuel. Nature Communications, 2021, 12, 4679.	13.2	300
48	A Mn-N3 single-atom catalyst embedded in graphitic carbon nitride for efficient CO2 electroreduction. Nature Communications, 2020, 11, 4341.	13.2	297
49	In Situ Phosphatizing of Triphenylphosphine Encapsulated within Metalâ€“Organic Frameworks to Design Atomic Co₁â€“P₁N₃ Interfacial Structure for Promoting Catalytic Performance. Journal of the American Chemical Society, 2020, 142, 8431-8439.	14.6	296
50	Synergistically Interactive Pyridinicâ€Nâ€“MoP Sites: Identified Active Centers for Enhanced Hydrogen Evolution in Alkaline Solution. Angewandte Chemie - International Edition, 2020, 59, 8982-8990.	14.8	293
51	Rational Design of Feâ€“N/C Hybrid for Enhanced Nitrogen Reduction Electrocatalysis under Ambient Conditions in Aqueous Solution. ACS Catalysis, 2019, 9, 336-344.	11.7	290
52	Atomically Dispersed Fe/N-Doped Hierarchical Carbon Architectures Derived from a Metalâ€“Organic Framework Composite for Extremely Efficient Electrocatalysis. ACS Energy Letters, 2017, 2, 504-511.	18.4	289
53	Biochar-supported nanoscale zero-valent iron as an efficient catalyst for organic degradation in groundwater. Journal of Hazardous Materials, 2020, 383, 121240.	12.6	287
54	Highly Electrocatalytic Ethylene Production from CO₂ on Nanodefective Cu Nanosheets. Journal of the American Chemical Society, 2020, 142, 13606-13613.	14.6	287

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55	Black Phosphorus Quantum Dot/Ti₃C₂ MXene Nanosheet Composites for Efficient Electrochemical Lithium/Sodiumâ€Ion Storage. Advanced Energy Materials, 2018, 8, 1801514.	22.2	284
56	Functionalized MoS₂ Nanovehicle with Nearâ€Infrared Laserâ€Mediated Nitric Oxide Release and Photothermal Activities for Advanced Bacteriaâ€Infected Wound Therapy. Small, 2018, 14, e1802290.	11.2	281
57	Diagnosis and management of acute deep vein thrombosis: a joint consensus document from the European Society of Cardiology working groups of aorta and peripheral vascular diseases and pulmonary circulation and right ventricular function. European Heart Journal, 2018, 39, 4208-4218.	2.3	279
58	Efficient U(VI) Reduction and Sequestration by Ti₂CT_x MXene. Environmental Science & Technology, 2018, 52, 10748-10756.	10.5	279
59	A Polymer Encapsulation Strategy to Synthesize Porous Nitrogenâ€Doped Carbonâ€Nanosphereâ€Supported Metal Isolatedâ€Singleâ€Atomicâ€Site Catalysts. Advanced Materials, 2018, 30, e1706508.	24.3	271
60	Cation vacancy stabilization of single-atomic-site Pt1/Ni(OH)x catalyst for diboration of alkynes and alkenes. Nature Communications, 2018, 9, 1002.	13.2	270
61	Modulating Coordination Environment of Single-Atom Catalysts and Their Proximity to Photosensitive Units for Boosting MOF Photocatalysis. Journal of the American Chemical Society, 2021, 143, 12220-12229.	14.6	267
62	OASIS, a CREB/ATF-family member, modulates UPR signalling in astrocytes. Nature Cell Biology, 2005, 7, 186-194.	10.0	264
63	Highly active, stable oxidized platinum clusters as electrocatalysts for the hydrogen evolution reaction. Energy and Environmental Science, 2017, 10, 2450-2458.	32.2	261
64	Manganese acting as a high-performance heterogeneous electrocatalyst in carbon dioxide reduction. Nature Communications, 2019, 10, 2980.	13.2	253
65	Value-centric design of the internet-of-things solution for food supply chain: Value creation, sensor portfolio and information fusion. Information Systems Frontiers, 2015, 17, 289-319.	6.7	241
66	Efficient removal of uranium from aqueous solution by zero-valent iron nanoparticle and its graphene composite. Journal of Hazardous Materials, 2015, 290, 26-33.	12.6	239
67	Loading Actinides in Multilayered Structures for Nuclear Waste Treatment: The First Case Study of Uranium Capture with Vanadium Carbide MXene. ACS Applied Materials & Interfaces, 2016, 8, 16396-16403.	8.3	239
68	Polycyclic Aromatic Hydrocarbon Contribution to the Infrared Output Energy of the Universe at z â‰ƒ 2. Astrophysical Journal, Supplement Series, 2004, 154, 112-117.	8.1	238
69	Medial reward and lateral non-reward orbitofrontal cortex circuits change in opposite directions in depression. Brain, 2016, 139, 3296-3309.	8.0	235
70	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.	24.3	231
71	An Enzymeâ€Mimicking Singleâ€Atom Catalyst as an Efficient Multiple Reactive Oxygen and Nitrogen Species Scavenger for Sepsis Management. Angewandte Chemie - International Edition, 2020, 59, 5108-5115.	14.8	230
72	Insights into Interfacial Synergistic Catalysis over Ni@TiO_{2â€“x} Catalyst toward Waterâ€“Gas Shift Reaction. Journal of the American Chemical Society, 2018, 140, 11241-11251.	14.6	226

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73	Rare Earth Single-Atom Catalysts for Nitrogen and Carbon Dioxide Reduction. ACS Nano, 2020, 14, 1093-1101.	15.3	222
74	A cocoon silk chemistry strategy to ultrathin N-doped carbon nanosheet with metal single-site catalysts. Nature Communications, 2018, 9, 3861.	13.2	220
75	Controlling N-doping type in carbon to boost single-atom site Cu catalyzed transfer hydrogenation of quinoline. Nano Research, 2020, 13, 3082-3087.	10.6	220
76	Relationship between Iron Carbide Phases (Îµ-Fe₂C, Fe₇C₃, and) Tj ETQq0 0 0 rgBT /Overlock 10 Catalysts. ACS Catalysis, 2018, 8, 3304-3316.	11.7	218
77	Iron atomâ€“cluster interactions increase activity and improve durability in Feâ€“Nâ€“C fuel cells. Nature Communications, 2022, 13, .	13.2	218
78	Copper single-atom catalysts with photothermal performance and enhanced nanozyme activity for bacteriaâ€infected wound therapy. Bioactive Materials, 2021, 6, 4389-4401.	16.1	217
79	Bimetallic nickel-molybdenum/tungsten nanoalloys for high-efficiency hydrogen oxidation catalysis in alkaline electrolytes. Nature Communications, 2020, 11, 4789.	13.2	215
80	Low-Cost Printed Chipless RFID Humidity Sensor Tag for Intelligent Packaging. IEEE Sensors Journal, 2015, 15, 3201-3208.	4.8	210
81	Rational Design of Holey 2D Nonlayered Transition Metal Carbide/Nitride Heterostructure Nanosheets for Highly Efficient Water Oxidation. Advanced Energy Materials, 2019, 9, 1803768.	22.2	210
82	Confined small-sized cobalt catalysts stimulate carbon-chain growth reversely by modifying ASF law of Fischerâ€“Tropsch synthesis. Nature Communications, 2018, 9, 3250.	13.2	206
83	Alkali Etching of Layered Double Hydroxide Nanosheets for Enhanced Photocatalytic N₂ Reduction to NH₃. Advanced Energy Materials, 2020, 10, 2002199.	22.2	206
84	High-Bandwidth White-Light System Combining a Micro-LED with Perovskite Quantum Dots for Visible Light Communication. ACS Applied Materials & Interfaces, 2018, 10, 5641-5648.	8.3	203
85	Gramâ€Scale Synthesis of Highâ€Loading Singleâ€Atomicâ€Site Fe Catalysts for Effective Epoxidation of Styrene. Advanced Materials, 2020, 32, e2000896.	24.3	201
86	Design of a terminal solution for integration of in-home health care devices and services towards the Internet-of-Things. Enterprise Information Systems, 2015, 9, 86-116.	4.7	196
87	Strain Engineering of a MXene/CNT Hierarchical Porous Hollow Microsphere Electrocatalyst for a Highâ€Efficiency Lithium Polysulfide Conversion Process. Angewandte Chemie - International Edition, 2021, 60, 2371-2378.	14.8	195
88	Singleâ€Atom Fe Catalysts for Fentonâ€Like Reactions: Roles of Different N Species. Advanced Materials, 2022, 34, e2110653.	24.3	195
89	Preparation of Feâ€“Nâ€“C catalysts with FeN_x (x = 1, 3, 4) active sites and comparison of their activities for the oxygen reduction reaction and performances in proton exchange membrane fuel cells. Journal of Materials Chemistry A, 2019, 7, 26147-26153.	10.5	193
90	Atomically Dispersed Feâ€“Heteroatom (N, S) Bridge Sites Anchored on Carbon Nanosheets for Promoting Oxygen Reduction Reaction. ACS Energy Letters, 2021, 6, 379-386.	18.4	191

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91	Interfacial Feâ€'Oâ€'Niâ€'Oâ€'Fe Bonding Regulates the Active Ni Sites of Niâ€MOFs via Iron Doping and Decorating with FeOOH for Superâ€Efficient Oxygen Evolution. Angewandte Chemie - International Edition, 2022, 61, .	14.8	191
92	Translocation and biotransformation of CuO nanoparticles in rice (Oryza sativa L.) plants. Environmental Pollution, 2015, 197, 99-107.	7.7	187
93	Atomic Insights for Optimum and Excess Doping in Photocatalysis: A Case Study of Fewâ€Layer Cuâ€Znln₂S₄. Advanced Functional Materials, 2019, 29, 1807013.	16.5	187
94	Interface confined hydrogen evolution reaction in zero valent metal nanoparticles-intercalated molybdenum disulfide. Nature Communications, 2017, 8, 14548.	13.2	184
95	Unraveling sorption of lead in aqueous solutions by chemically modified biochar derived from coconut fiber: A microscopic and spectroscopic investigation. Science of the Total Environment, 2017, 576, 766-774.	8.2	184
96	Alcohols electrooxidation coupled with H2 production at high current densities promoted by a cooperative catalyst. Nature Communications, 2022, 13, 147.	13.2	184
97	Unique human immune signature of Ebola virus disease in Guinea. Nature, 2016, 533, 100-104.	36.2	179
98	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.	14.8	177
99	Highly Efficient Electroreduction of CO₂ to C2+ Alcohols on Heterogeneous Dual Active Sites. Angewandte Chemie - International Edition, 2020, 59, 16459-16464.	14.8	176
100	A Bioinspired Fiveâ€Coordinated Singleâ€Atom Iron Nanozyme for Tumor Catalytic Therapy. Advanced Materials, 2022, 34, e2107088.	24.3	175
101	X-ray-activated long persistent phosphors featuring strong UVC afterglow emissions. Light: Science and Applications, 2018, 7, 88.	16.2	172
102	345 m underwater optical wireless communication with 270 Gbps data rate based on a green laser diode with NRZ-OOK modulation. Optics Express, 2017, 25, 27937.	3.4	171
103	A role for jasmonates in climacteric fruit ripening. Planta, 1998, 204, 444-449.	3.3	165
104	In-situ spectroscopic observation of dynamic-coupling oxygen on atomically dispersed iridium electrocatalyst for acidic water oxidation. Nature Communications, 2021, 12, 6118.	13.2	162
105	Leadâ€Free Cs₂BiAgBr₆ Double Perovskiteâ€Based Humidity Sensor with Superfast Recovery Time. Advanced Functional Materials, 2019, 29, 1902234.	16.5	160
106	High-speed underwater optical wireless communication using a blue GaN-based micro-LED. Optics Express, 2017, 25, 1193.	3.4	157
107	Materials capability and device performance in flexible electronics for the Internet of Things. Journal of Materials Chemistry C, 2014, 2, 1220-1232.	5.6	155
108	Simultaneous oxidative and reductive reactions in one system by atomic design. Nature Catalysis, 2021, 4, 134-143.	28.3	154

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109	Dating fluvial terraces by230Th/U on pedogenic carbonate, Wind River Basin, Wyoming. Quaternary Research, 2003, 59, 139-150.	1.7	151
110	A novel curcumin analog binds to and activates TFEB in vitro and in vivo independent of MTOR inhibition. Autophagy, 2016, 12, 1372-1389.	11.0	150
111	Atomically Dispersed Ptâ€“N₃C₁ Sites Enabling Efficient and Selective Electrocatalytic Câ€“C Bond Cleavage in Lignin Models under Ambient Conditions. Journal of the American Chemical Society, 2021, 143, 9429-9439.	14.6	147
112	Lewis Acid Site-Promoted Single-Atomic Cu Catalyzes Electrochemical CO₂ Methanation. Nano Letters, 2021, 21, 7325-7331.	9.5	147
113	The Electrochemistry with Lithium versus Sodium of Selenium Confined To Slit Micropores in Carbon. Nano Letters, 2016, 16, 4560-4568.	9.5	144
114	Magneticâ€Fieldâ€Stimulated Efficient Photocatalytic N₂ Fixation over Defective BaTiO₃ Perovskites. Angewandte Chemie - International Edition, 2021, 60, 11910-11918.	14.8	143
115	Ultrastable FeCo Bifunctional Electrocatalyst on Se-Doped CNTs for Liquid and Flexible All-Solid-State Rechargeable Znâ€“Air Batteries. Nano Letters, 2021, 21, 2255-2264.	9.5	142
116	N-Bridged Coâ€“Nâ€“Ni: new bimetallic sites for promoting electrochemical CO₂ reduction. Energy and Environmental Science, 2021, 14, 3019-3028.	32.2	142
117	Isolating contiguous Pt atoms and forming Pt-Zn intermetallic nanoparticles to regulate selectivity in 4-nitrophenylacetylene hydrogenation. Nature Communications, 2019, 10, 3787.	13.2	141
118	Systematic review of the management of canine osteoarthritis. Veterinary Record, 2009, 164, 418-424.	0.3	140
119	CoO Hollow Cube/Reduced Graphene Oxide Composites with Enhanced Lithium Storage Capability. Chemistry of Materials, 2014, 26, 5958-5964.	7.1	136
120	Nature Inspired MXene-Decorated 3D Honeycomb-Fabric Architectures Toward Efficient Water Desalination and Salt Harvesting. Nano-Micro Letters, 2022, 14, 10.	27.9	136
121	Interfacial Structure-Determined Reaction Pathway and Selectivity for 5-(Hydroxymethyl)furfural Hydrogenation over Cu-Based Catalysts. ACS Catalysis, 2020, 10, 1353-1365.	11.7	135
122	Aryl Diazonium-Assisted Amidoximation of MXene for Boosting Water Stability and Uranyl Sequestration via Electrochemical Sorption. ACS Applied Materials & Interfaces, 2020, 12, 15579-15587.	8.3	134
123	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.	11.7	131
124	Production of vanillin from waste residue of rice bran oil by Aspergillus niger and Pycnoporus cinnabarinus. Bioresource Technology, 2007, 98, 1115-1119.	9.7	129
125	New Insights into the Roles of Mg in Improving the Rate Capability and Cycling Stability of O3-NaMn_{0.48}Ni_{0.2}Fe_{0.3}Mg_{0.02}O₂ for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 10819-10827.	8.3	128
126	Metasurface Optical Solar Reflectors Using AZO Transparent Conducting Oxides for Radiative Cooling of Spacecraft. ACS Photonics, 2018, 5, 495-501.	6.9	125

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127	Ambient Synthesis of Singleâ€Atom Catalysts from Bulk Metal via Trapping of Atoms by Surface Dangling Bonds. Advanced Materials, 2019, 31, e1904496.	24.3	125
128	Activating Layered Double Hydroxide with Multivacancies by Memory Effect for Energy-Efficient Hydrogen Production at Neutral pH. ACS Energy Letters, 2019, 4, 1412-1418.	18.4	125
129	Sustainable production of benzene from lignin. Nature Communications, 2021, 12, 4534.	13.2	125
130	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.	10.6	124
131	Regulating the Coordination Environment of MOFâ€Templated Singleâ€Atom Nickel Electrocatalysts for Boosting CO₂ Reduction. Angewandte Chemie, 2020, 132, 2727-2731.	2.1	123
132	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, 1802167.	16.5	122
133	Food quality and safety monitoring using gas sensor array in intelligent packaging. Sensor Review, 2016, 36, 169-183.	1.8	121
134	Long terms trends of multimorbidity and association with physical activity in older English population. International Journal of Behavioral Nutrition and Physical Activity, 2016, 13, 8.	4.5	120
135	The Role of Alkali Metal in Î±â€MnO₂ Catalyzed Ammoniaâ€Selective Catalysis. Angewandte Chemie - International Edition, 2019, 58, 6351-6356.	14.8	119
136	Ionic liquid accelerates the crystallization of Zr-based metalâ€“organic frameworks. Nature Communications, 2017, 8, 175.	13.2	117
137	Enhancing the Catalytic Activity of Co₃O₄ for Liâ€“O₂ Batteries through the Synergy of Surface/Interface/Doping Engineering. ACS Catalysis, 2018, 8, 1955-1963.	11.7	117
138	Improved removal capacity of magnetite for Cr(VI) by electrochemical reduction. Journal of Hazardous Materials, 2019, 374, 26-34.	12.6	116
139	A three-dimensional hierarchically porous Mo₂C architecture: salt-template synthesis of a robust electrocatalyst and anode material towards the hydrogen evolution reaction and lithium storage. Journal of Materials Chemistry A, 2017, 5, 20228-20238.	10.5	114
140	Atomically Dispersed Fe-N4 Modified with Precisely Located S for Highly Efficient Oxygen Reduction. Nano-Micro Letters, 2020, 12, 116.	27.9	114
141	Selectively Upgrading Lignin Derivatives to Carboxylates through Electrochemical Oxidative C(OH)â”C Bond Cleavage by a Mnâ€Doped Cobalt Oxyhydroxide Catalyst. Angewandte Chemie - International Edition, 2021, 60, 8976-8982.	14.8	114
142	A Wearable Hand Rehabilitation System With Soft Gloves. IEEE Transactions on Industrial Informatics, 2021, 17, 943-952.	12.1	112
143	Synthesis of a Boronâ€“Imidazolate Framework Nanosheet with Dimer Copper Units for CO₂ Electroreduction to Ethylene. Angewandte Chemie - International Edition, 2021, 60, 16687-16692.	14.8	112
144	STM studies of defect production on the (110)-(1Ã—1) and (110)-(1Ã—2) surfaces induced by UV irradiation. Chemical Physics Letters, 2003, 369, 152-158.	2.7	110

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145	Iridium-Triggered Phase Transition of MoS₂ Nanosheets Boosts Overall Water Splitting in Alkaline Media. ACS Energy Letters, 2019, 4, 368-374.	18.4	110
146	Highly Efficient CO₂ Electroreduction to Methanol through Atomically Dispersed Sn Coupled with Defective CuO Catalysts. Angewandte Chemie - International Edition, 2021, 60, 21979-21987.	14.8	110
147	Rosuvastatin enhances the therapeutic efficacy of adipose-derived mesenchymal stem cells for myocardial infarction via PI3K/Akt and MEK/ERK pathways. Basic Research in Cardiology, 2013, 108, 333.	6.0	108
148	Xylem and Phloem Based Transport of CeO₂ Nanoparticles in Hydroponic Cucumber Plants. Environmental Science & Technology, 2017, 51, 5215-5221.	10.5	108
149	Elucidating the mechanism of the structure-dependent enzymatic activity of Feâ€"N/C oxidase mimics. Chemical Communications, 2019, 55, 5271-5274.	4.2	108
150	Operando X-ray spectroscopy visualizing the chameleon-like structural reconstruction on an oxygen evolution electrocatalyst. Energy and Environmental Science, 2021, 14, 906-915.	32.2	108
151	Ternary nickelâ€"tungstenâ€"copper alloy rivals platinum for catalyzing alkaline hydrogen oxidation. Nature Communications, 2021, 12, 2686.	13.2	108
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