Zheng Jiang

List of Publications by Year
in descending order

240 papers	26,854 citations	10351 72 h-index	6454 157 g-index
249 all docs	249 docs citations	249 times ranked	20717 citing authors

#	Article	IF	Citations
1	Single-atom catalysis of CO oxidation using Pt1/FeOx. Nature Chemistry, 2011, 3, 634-641.	6.6	5,149
2	Low-temperature hydrogen production from water and methanol using Pt/Î±-MoC catalysts. Nature, 2017, 544, 80-83.	13.7	1,090
3	Electrocatalytic reduction of CO2 to ethylene and ethanol through hydrogen-assisted Câ€“C coupling over fluorine-modified copper. Nature Catalysis, 2020, 3, 478-487.	16.1	788
4	Atomic-level insight into super-efficient electrocatalytic oxygen evolution on iron and vanadium co-doped nickel (oxy)hydroxide. Nature Communications, 2018, 9, 2885.	5.8	669
5	High performance platinum single atom electrocatalyst for oxygen reduction reaction. Nature Communications, 2017, 8, 15938.	5.8	569
6	An Isolated Zincâ€“Cobalt Atomic Pair for Highly Active and Durable Oxygen Reduction. Angewandte Chemie - International Edition, 2019, 58, 2622-2626.	7.2	494
7	Chemically activating MoS2 via spontaneous atomic palladium interfacial doping towards efficient hydrogen evolution. Nature Communications, 2018, 9, 2120.	5.8	461
8	Promoting electrocatalytic CO2 reduction to formate via sulfur-boosting water activation on indium surfaces. Nature Communications, 2019, 10, 892.	5.8	446
9	Climbing the Apex of the ORR Volcano Plot via Binuclear Site Construction: Electronic and Geometric Engineering. Journal of the American Chemical Society, 2019, 141, 17763-17770.	6.6	436
10	Single-Atomic Ruthenium Catalytic Sites on Nitrogen-Doped Graphene for Oxygen Reduction Reaction in Acidic Medium. ACS Nano, 2017, 11, 6930-6941.	7.3	435
11	Microporous Framework Induced Synthesis of Single-Atom Dispersed Fe-N-C Acidic ORR Catalyst and Its in Situ Reduced Fe-N₄ Active Site Identification Revealed by X-ray Absorption Spectroscopy. ACS Catalysis, 2018, 8, 2824-2832.	5.5	433
12	Dynamic oxygen adsorption on single-atomic Ruthenium catalyst with high performance for acidic oxygen evolution reaction. Nature Communications, 2019, 10, 4849.	5.8	416
13	Chromium-ruthenium oxide solid solution electrocatalyst for highly efficient oxygen evolution reaction in acidic media. Nature Communications, 2019, 10, 162.	5.8	396
14	C and N Hybrid Coordination Derived Coâ€“Câ€“N Complex as a Highly Efficient Electrocatalyst for Hydrogen Evolution Reaction. Journal of the American Chemical Society, 2015, 137, 15070-15073.	6.6	377
15	Highly Efficient CO₂ Electroreduction on ZnN₄â€based Singleâ€Atom Catalyst. Angewandte Chemie - International Edition, 2018, 57, 12303-12307.	7.2	356
16	In-situ reconstructed Ru atom array on Î±-MnO2 with enhanced performance for acidic water oxidation. Nature Catalysis, 2021, 4, 1012-1023.	16.1	324
17	Identification of binuclear Co2N5 active sites for oxygen reduction reaction with more than one magnitude higher activity than single atom CoN4 site. Nano Energy, 2018, 46, 396-403.	8.2	319
18	Singleâ€Atom Crâˆ'N₄ Sites Designed for Durable Oxygen Reduction Catalysis in Acid Media. Angewandte Chemie - International Edition, 2019, 58, 12469-12475.	7.2	307

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19	Synergistic Effect between Metalâ€“Nitrogenâ€“Carbon Sheets and NiO Nanoparticles for Enhanced Electrochemical Waterâ€Oxidation Performance. Angewandte Chemie - International Edition, 2015, 54, 10530-10534.	7.2	301
20	Zn Single Atom Catalyst for Highly Efficient Oxygen Reduction Reaction. Advanced Functional Materials, 2017, 27, 1700802.	7.8	296
21	A highly CO-tolerant atomically dispersed Pt catalyst for chemoselective hydrogenation. Nature Nanotechnology, 2019, 14, 354-361.	15.6	292
22	A stable low-temperature H2-production catalyst by crowding Pt on Î±-MoC. Nature, 2021, 589, 396-401.	13.7	290
23	An Engineered Superhydrophilic/Superaerophobic Electrocatalyst Composed of the Supported CoMoS_{<i>x</i>} Chalcogel for Overall Water Splitting. Angewandte Chemie - International Edition, 2020, 59, 1659-1665.	7.2	268
24	Carbonâ€Supported Divacancyâ€Anchored Platinum Singleâ€Atom Electrocatalysts with Superhigh Pt Utilization for the Oxygen Reduction Reaction. Angewandte Chemie - International Edition, 2019, 58, 1163-1167.	7.2	252
25	Manipulating spin polarization of titanium dioxide for efficient photocatalysis. Nature Communications, 2020, 11, 418.	5.8	252
26	Lithiation-induced amorphization of Pd3P2S8 for highly efficient hydrogen evolution. Nature Catalysis, 2018, 1, 460-468.	16.1	247
27	Generating Defectâ€Rich Bismuth for Enhancing the Rate of Nitrogen Electroreduction to Ammonia. Angewandte Chemie - International Edition, 2019, 58, 9464-9469.	7.2	226
28	Iron Vacancies Induced Bifunctionality in Ultrathin Feroxyhyte Nanosheets for Overall Water Splitting. Advanced Materials, 2018, 30, e1803144.	11.1	225
29	Anchoring Cu1 species over nanodiamond-graphene for semi-hydrogenation of acetylene. Nature Communications, 2019, 10, 4431.	5.8	224
30	Enhanced Photocatalytic Activity and Electron Transfer Mechanisms of Graphene/TiO₂ with Exposed {001} Facets. Journal of Physical Chemistry C, 2011, 115, 23718-23725.	1.5	223
31	Subnanometer Bimetallic Platinumâ€“Zinc Clusters in Zeolites for Propane Dehydrogenation. Angewandte Chemie - International Edition, 2020, 59, 19450-19459.	7.2	221
32	Synergistic Doping and Intercalation: Realizing Deep Phase Modulation on MoS₂ Arrays for Highâ€Efficiency Hydrogen Evolution Reaction. Angewandte Chemie - International Edition, 2019, 58, 16289-16296.	7.2	201
33	An In Situ Formed Surface Coating Layer Enabling LiCoO₂ with Stable 4.6 V Highâ€Voltage Cycle Performances. Advanced Energy Materials, 2020, 10, 2001413.	10.2	201
34	Fluorination-enabled Reconstruction of NiFe Electrocatalysts for Efficient Water Oxidation. Nano Letters, 2021, 21, 492-499.	4.5	190
35	Visible light-driven Câ˜’H activation and Câ€“C coupling of methanol into ethylene glycol. Nature Communications, 2018, 9, 1181.	5.8	188
36	Carbide-Supported Au Catalysts for Waterâ€“Gas Shift Reactions: A New Territory for the Strong Metalâ€“Support Interaction Effect. Journal of the American Chemical Society, 2018, 140, 13808-13816.	6.6	188

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37	Confined small-sized cobalt catalysts stimulate carbon-chain growth reversely by modifying ASF law of Fischerâ€“Tropsch synthesis. Nature Communications, 2018, 9, 3250.	5.8	186
38	Rational construction of oxygen vacancies onto tungsten trioxide to improve visible light photocatalytic water oxidation reaction. Applied Catalysis B: Environmental, 2018, 239, 398-407.	10.8	183
39	Confined Ir single sites with triggered lattice oxygen redox: Toward boosted and sustained water oxidation catalysis. Joule, 2021, 5, 2164-2176.	11.7	183
40	Highâ€Valence Nickel Singleâ€Atom Catalysts Coordinated to Oxygen Sites for Extraordinarily Activating Oxygen Evolution Reaction. Advanced Science, 2020, 7, 1903089.	5.6	182
41	Insights into the effects of surface/bulk defects on photocatalytic hydrogen evolution over TiO2 with exposed {001} facets. Applied Catalysis B: Environmental, 2018, 220, 126-136.	10.8	176
42	Bridge Bonded Oxygen Ligands between Approximated FeN₄ Sites Confer Catalysts with High ORR Performance. Angewandte Chemie - International Edition, 2020, 59, 13923-13928.	7.2	176
43	Weak magnetic field significantly enhances selenite removal kinetics by zero valent iron. Water Research, 2014, 49, 371-380.	5.3	172
44	Atomically Dispersed Ni/Î±-MoC Catalyst for Hydrogen Production from Methanol/Water. Journal of the American Chemical Society, 2021, 143, 309-317.	6.6	168
45	Insight into the Formation of Co@Co₂C Catalysts for Direct Synthesis of Higher Alcohols and Olefins from Syngas. ACS Catalysis, 2018, 8, 228-241.	5.5	152
46	Tin-Assisted Fully Exposed Platinum Clusters Stabilized on Defect-Rich Graphene for Dehydrogenation Reaction. ACS Catalysis, 2019, 9, 5998-6005.	5.5	150
47	Ag-Incorporated Organicâ€“Inorganic Perovskite Films and Planar Heterojunction Solar Cells. Nano Letters, 2017, 17, 3231-3237.	4.5	149
48	Oxygen Vacancy Tuning toward Efficient Electrocatalytic CO₂ Reduction to C₂H₄. Small Methods, 2019, 3, 1800449.	4.6	146
49	Comprehensive Understanding of the Spatial Configurations of CeO₂ in NiO for the Electrocatalytic Oxygen Evolution Reaction: Embedded or Surfaceâ€Loaded. Advanced Functional Materials, 2018, 28, 1706056.	7.8	141
50	Simultaneous oxidative and reductive reactions in one system by atomic design. Nature Catalysis, 2021, 4, 134-143.	16.1	132
51	Single atom dispersed Rh-biphephos&PPh₃@porous organic copolymers: highly efficient catalysts for continuous fixed-bed hydroformylation of propene. Green Chemistry, 2016, 18, 2995-3005.	4.6	127
52	Graphitic phosphorus coordinated single Fe atoms for hydrogenative transformations. Nature Communications, 2020, 11, 4074.	5.8	122
53	Wavelet analysis of extended X-ray absorption fine structure data: Theory, application. Physica B: Condensed Matter, 2018, 542, 12-19.	1.3	114
54	Covalent Triazine Framework Confined Copper Catalysts for Selective Electrochemical CO₂ Reduction: Operando Diagnosis of Active Sites. ACS Catalysis, 2020, 10, 4534-4542.	5.5	112

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55	Adsorption Site Regulation to Guide Atomic Design of Niâ€“Ga Catalysts for Acetylene Semiâ€Hydrogenation. Angewandte Chemie - International Edition, 2020, 59, 11647-11652.	7.2	111
56	Regulating coordination number in atomically dispersed Pt species on defect-rich graphene for n-butane dehydrogenation reaction. Nature Communications, 2021, 12, 2664.	5.8	111
57	Two-Step Carbothermal Welding To Access Atomically Dispersed Pd₁ on Three-Dimensional Zirconia Nanonet for Direct Indole Synthesis. Journal of the American Chemical Society, 2019, 141, 10590-10594.	6.6	108
58	Reactant friendly hydrogen evolution interface based on di-anionic MoS2 surface. Nature Communications, 2020, 11, 1116.	5.8	108
59	In Situ Formation of Disorder-Engineered TiO₂(B)-Anatase Heterophase Junction for Enhanced Photocatalytic Hydrogen Evolution. ACS Applied Materials & Interfaces, 2015, 7, 24987-24992.	4.0	103
60	Accelerated active phase transformation of NiO powered by Pt single atoms for enhanced oxygen evolution reaction. Chemical Science, 2018, 9, 6803-6812.	3.7	96
61	Research Progress on the Indirect Hydrogenation of Carbon Dioxide to Methanol. ChemSusChem, 2016, 9, 322-332.	3.6	90
62	Atomicâ€Level Feâ€Nâ€C Coupled with Fe₃Câ€Fe Nanocomposites in Carbon Matrixes as Highâ€Efficiency Bifunctional Oxygen Catalysts. Small, 2020, 16, e1906057.	5.2	90
63	De-NOx in alternative lean/rich atmospheres on La1â^’xSrxCoO3 perovskites. Energy and Environmental Science, 2011, 4, 3351.	15.6	87
64	Understanding oxygen vacancies in disorder-engineered surface and subsurface of CaTiO3 nanosheets on photocatalytic hydrogen evolution. Applied Catalysis B: Environmental, 2020, 267, 118378.	10.8	86
65	Highly Efficient CO₂ Electroreduction on ZnN₄â€based Singleâ€Atom Catalyst. Angewandte Chemie, 2018, 130, 12483-12487.	1.6	83
66	Sequestration of Antimonite by Zerovalent Iron: Using Weak Magnetic Field Effects to Enhance Performance and Characterize Reaction Mechanisms. Environmental Science & Technology, 2016, 50, 1483-1491.	4.6	81
67	In situ tuning of electronic structure of catalysts using controllable hydrogen spillover for enhanced selectivity. Nature Communications, 2020, 11, 4773.	5.8	81
68	Highly Ethyleneâ€Selective Electrocatalytic CO₂ Reduction Enabled by Isolated Cuâ^’S Motifs in Metalâ€“Organic Framework Based Precatalysts. Angewandte Chemie - International Edition, 2022, 61, .	7.2	81
69	COâ€Tolerant PEMFC Anodes Enabled by Synergistic Catalysis between Iridium Singleâ€Atom Sites and Nanoparticles. Angewandte Chemie - International Edition, 2021, 60, 26177-26183.	7.2	81
70	High-loaded sub-6 nm Pt1Co1 intermetallic compounds with highly efficient performance expression in PEMFCs. Energy and Environmental Science, 2022, 15, 278-286.	15.6	81
71	Direct Methylation of Amines with Carbon Dioxide and Molecular Hydrogen using Supported Gold Catalysts. ChemSusChem, 2015, 8, 3489-3496.	3.6	80
72	Trifunctional C@MnO Catalyst for Enhanced Stable Simultaneously Catalytic Removal of Formaldehyde and Ozone. ACS Catalysis, 2018, 8, 3164-3180.	5.5	80

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73	Identifying Oxygen Activation/Oxidation Sites for Efficient Soot Combustion over Silver Catalysts Interacted with Nanoflower-Like Hydrotalcite-Derived CoAlO Metal Oxides. ACS Catalysis, 2019, 9, 8772-8784.	5.5	77
74	Optimizing Electron Densities of Niâ€Nâ€C Complexes by Hybrid Coordination for Efficient Electrocatalytic CO₂ Reduction. ChemSusChem, 2020, 13, 929-937.	3.6	76
75	Microwave-assisted synthesis of photoluminescent glutathione-capped Au/Ag nanoclusters: A unique sensor-on-a-nanoparticle for metal ions, anions, and small molecules. Nano Research, 2015, 8, 2329-2339.	5.8	75
76	Stabilization of Palladium Nanoparticles on Nanodiamondâ€“Graphene Coreâ€“Shell Supports for CO Oxidation. Angewandte Chemie - International Edition, 2015, 54, 15823-15826.	7.2	74
77	In situ directional formation of Co@CoO_x-embedded 1D carbon nanotubes as an efficient oxygen electrocatalyst for ultra-high rate Znâ€“air batteries. Journal of Materials Chemistry A, 2017, 5, 13994-14002.	5.2	74
78	Carbonâ€Supported Divacancyâ€Anchored Platinum Singleâ€Atom Electrocatalysts with Superhigh Pt Utilization for the Oxygen Reduction Reaction. Angewandte Chemie, 2019, 131, 1175-1179.	1.6	73
79	Low Temperature Oxidation of Ethane to Oxygenates by Oxygen over Iridium-Cluster Catalysts. Journal of the American Chemical Society, 2019, 141, 18921-18925.	6.6	72
80	Few-Atom Pt Ensembles Enable Efficient Catalytic Cyclohexane Dehydrogenation for Hydrogen Production. Journal of the American Chemical Society, 2022, 144, 3535-3542.	6.6	72
81	Palladium single atoms supported by interwoven carbon nanotube and manganese oxide nanowire networks for enhanced electrocatalysis. Journal of Materials Chemistry A, 2018, 6, 23366-23377.	5.2	68
82	Overwhelming the Performance of Single Atoms with Atomic Clusters for Platinum-Catalyzed Hydrogen Evolution. ACS Catalysis, 2019, 9, 8213-8223.	5.5	68
83	Conjugated Covalent Organic Frameworks as Platinum Nanoparticle Supports for Catalyzing the Oxygen Reduction Reaction. Chemistry of Materials, 2020, 32, 9747-9752.	3.2	68
84	Hydrogenated Cagelike Titania Hollow Spherical Photocatalysts for Hydrogen Evolution under Simulated Solar Light Irradiation. ACS Applied Materials & Interfaces, 2016, 8, 23006-23014.	4.0	67
85	Constructing Mononuclear Palladium Catalysts by Precoordination/Solvothermal Polymerization: Recyclable Catalyst for Regioselective Oxidative Heck Reactions. Angewandte Chemie - International Edition, 2019, 58, 2448-2453.	7.2	64
86	A general synthetic approach for hexagonal phase tungsten nitride composites and their application in the hydrogen evolution reaction. Journal of Materials Chemistry A, 2018, 6, 10967-10975.	5.2	62
87	A Superlattice-Stabilized Layered CuS Anode for High-Performance Aqueous Zinc-Ion Batteries. ACS Nano, 2021, 15, 17748-17756.	7.3	62
88	Ring-Opening Transformation of 5-Hydroxymethylfurfural Using a Golden Single-Atomic-Site Palladium Catalyst. ACS Catalysis, 2019, 9, 6212-6222.	5.5	60
89	Sub-nanometric Manganous Oxide Clusters in Nitrogen Doped Mesoporous Carbon Nanosheets for High-Performance Lithiumâ€“Sulfur Batteries. Nano Letters, 2021, 21, 700-708.	4.5	60
90	Tuning interaction between cobalt catalysts and nitrogen dopants in carbon nanospheres to promote Fischer-Tropsch synthesis. Applied Catalysis B: Environmental, 2019, 248, 73-83.	10.8	58

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91	Understanding the Local and Electronic Structures toward Enhanced Thermal Stable Luminescence of CaAlSiN₃:Eu²⁺. Chemistry of Materials, 2016, 28, 5505-5515.	3.2	57
92	Carbon vacancy defect-activated Pt cluster for hydrogen generation. Journal of Materials Chemistry A, 2019, 7, 15364-15370.	5.2	57
93	In situ formation of mononuclear complexes by reaction-induced atomic dispersion of supported noble metal nanoparticles. Nature Communications, 2019, 10, 5281.	5.8	57
94	Achieving efficient and robust catalytic reforming on dual-sites of Cu species. Chemical Science, 2019, 10, 2578-2584.	3.7	56
95	Defect Engineering in Polymeric Cobalt Phthalocyanine Networks for Enhanced Electrochemical CO₂ Reduction. ChemElectroChem, 2018, 5, 2717-2721.	1.7	52
96	Atomic Design and Fine-Tuning of Subnanometric Pt Catalysts to Tame Hydrogen Generation. ACS Catalysis, 2021, 11, 4146-4156.	5.5	52
97	Highly Active Graphene Oxide-Supported Cobalt Single-Ion Catalyst for Chemiluminescence Reaction. Analytical Chemistry, 2017, 89, 13518-13523.	3.2	51
98	Cooperative Sites in Fully Exposed Pd Clusters for Low-Temperature Direct Dehydrogenation Reaction. ACS Catalysis, 2021, 11, 11469-11477.	5.5	51
99	Selective methane electrosynthesis enabled by a hydrophobic carbon coated copper coreâ€“shell architecture. Energy and Environmental Science, 2022, 15, 234-243.	15.6	51
100	Achieving an exceptionally high loading of isolated cobalt single atoms on a porous carbon matrix for efficient visible-light-driven photocatalytic hydrogen production. Chemical Science, 2019, 10, 2585-2591.	3.7	50
101	Interfacial-confined coordination to single-atom nanotherapeutics. Nature Communications, 2022, 13, 91.	5.8	49
102	Generating Defectâ€Rich Bismuth for Enhancing the Rate of Nitrogen Electroreduction to Ammonia. Angewandte Chemie, 2019, 131, 9564-9569.	1.6	47
103	Subnanometer Bimetallic Platinumâ€“Zinc Clusters in Zeolites for Propane Dehydrogenation. Angewandte Chemie, 2020, 132, 19618-19627.	1.6	47
104	Constructing Synergistic Znâ€N₄ and Feâ€N₄O Dualâ€Sites from the COF@MOF Derived Hollow Carbon for Oxygen Reduction Reaction. Small Structures, 2022, 3, .	6.9	46
105	An active, selective, and stable manganese oxide-supported atomic Pd catalyst for aerobic oxidation of 5-hydroxymethylfurfural. Green Chemistry, 2019, 21, 4194-4203.	4.6	45
106	Particle Size Effects of Cobalt Carbide for Fischerâ€“Tropsch to Olefins. ACS Catalysis, 2019, 9, 798-809.	5.5	45
107	Enhanced hydrogen generation by reverse spillover effects over bicomponent catalysts. Nature Communications, 2022, 13, 118.	5.8	44
108	A Magnetically Separable Pd Singleâ€Atom Catalyst for Efficient Selective Hydrogenation of Phenylacetylene. Advanced Materials, 2022, 34, e2110455.	11.1	44

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109	Grafting nanometer metal/oxide interface towards enhanced low-temperature acetylene semi-hydrogenation. Nature Communications, 2021, 12, 5770.	5.8	43
110	Confining single Pt atoms from Pt clusters on multi-armed CdS for enhanced photocatalytic hydrogen evolution. Journal of Materials Chemistry A, 2022, 10, 4594-4600.	5.2	43
111	Unravelling the Role of the Compressed Gas on Melting Point of Liquid Confined in Nanospace. Journal of Physical Chemistry Letters, 2012, 3, 1052-1055.	2.1	42
112	Selectivity Regulation in Au-Catalyzed Nitroaromatic Hydrogenation by Anchoring Single-Site Metal Oxide Promoters. ACS Catalysis, 2020, 10, 2837-2844.	5.5	42
113	A fully-conjugated covalent organic framework-derived carbon supporting ultra-close single atom sites for ORR. Applied Catalysis B: Environmental, 2022, 307, 121147.	10.8	42
114	Biocompatible Ruthenium Single-Atom Catalyst for Cascade Enzyme-Mimicking Therapy. ACS Applied Materials & Interfaces, 2021, 13, 45269-45278.	4.0	41
115	On-surface manipulation of atom substitution between cobalt phthalocyanine and the Cu(111) substrate. RSC Advances, 2017, 7, 13827-13835.	1.7	40
116	Bridge Bonded Oxygen Ligands between Approximated FeN₄ Sites Confer Catalysts with High ORR Performance. Angewandte Chemie, 2020, 132, 14027-14032.	1.6	40
117	Planar substrate-binding site dictates the specificity of ECF-type nickel/cobalt transporters. Cell Research, 2014, 24, 267-277.	5.7	39
118	Low-Temperature Growth of Bismuth Thin Films with (111) Facet on Highly Oriented Pyrolytic Graphite. ACS Applied Materials & Interfaces, 2015, 7, 8525-8532.	4.0	39
119	Heat treated carbon supported iron(<scp>ii</scp>)phthalocyanine oxygen reduction catalysts: elucidation of the structureâ€“activity relationship using X-ray absorption spectroscopy. Physical Chemistry Chemical Physics, 2016, 18, 33142-33151.	1.3	39
120	Promoted alkaline hydrogen evolution by an N-doped Ptâ€“Ru single atom alloy. Journal of Materials Chemistry A, 2021, 9, 14941-14947.	5.2	39
121	Synergistic Engineering of Sulfur Vacancies and Heterointerfaces in Copper Sulfide Anodes for Aqueous Znâ€Ion Batteries with Fast Diffusion Kinetics and an Ultralong Lifespan. Advanced Energy Materials, 2022, 12, .	10.2	39
122	Interface interaction induced oxygen activation of cactus-like Co3O4/OMS-2 nanorod catalysts in situ grown on monolithic cordierite for diesel soot combustion. Applied Catalysis B: Environmental, 2021, 286, 119932.	10.8	38
123	Surface oxygen vacancies promoted Pt redispersion to single-atoms for enhanced photocatalytic hydrogen evolution. Journal of Materials Chemistry A, 2021, 9, 13890-13897.	5.2	38
124	Cu single-atoms embedded in porous carbon nitride for selective oxidation of methane to oxygenates. Chemical Communications, 2020, 56, 14677-14680.	2.2	37
125	Ru single atoms for efficient chemoselective hydrogenation of nitrobenzene to azoxybenzene. Green Chemistry, 2021, 23, 4753-4761.	4.6	35
126	High-voltage asymmetric metalâ€“air batteries based on polymeric single-Zn2+-ion conductor. Matter, 2021, 4, 1287-1304.	5.0	34

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127	A Universal Singleâ€Atom Coating Strategy Based on Tannic Acid Chemistry for Multifunctional Heterogeneous Catalysis. Angewandte Chemie - International Edition, 2022, 61, .	7.2	34
128	Valence change of europium in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>EuFe</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:m compressed<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mro. Physical Review B, 2010, 82, .	1.1	33
129	Hierarchical confinement of PtZn alloy nanoparticles and single-dispersed Zn atoms on COF@MOF-derived carbon towards efficient oxygen reduction reaction. Journal of Materials Chemistry A, 2021, 9, 13625-13630.	5.2	33
130	Highly Selective Acetylene Semihydrogenation Catalyst with an Operation Window Exceeding 150 Â°C. ACS Catalysis, 2021, 11, 6073-6080.	5.5	33
131	Fabrication of NiSe2 by direct selenylation of a nickel surface. Applied Surface Science, 2018, 428, 623-629.	3.1	33
132	Proton exchange membrane fuel cells powered with both CO and H ₂. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	33
133	In Situ-Activated Indium Nanoelectrocatalysts for Highly Active and Selective CO₂ Electroreduction around the Thermodynamic Potential. ACS Catalysis, 2022, 12, 8601-8609.	5.5	33
134	Oneâ€Pot Approach to a Highly Robust Iron Oxide/Reduced Graphene Oxide Nanocatalyst for Fischerâ€"Tropsch Synthesis. ChemCatChem, 2013, 5, 714-719.	1.8	32
135	Addition of Pd on La_{0.7}Sr_{0.3}CoO₃ Perovskite To Enhance Catalytic Removal of NO_{<i>x</i>}. Industrial & Engineering Chemistry Research, 2018, 57, 521-531.	1.8	32
136	Construction of defect-engineered three-dimensionally ordered macroporous WO₃ for efficient photocatalytic water oxidation reaction. Journal of Materials Chemistry A, 2021, 9, 3036-3043.	5.2	32
137	Defective C3N4 frameworks coordinated diatomic copper catalyst: Towards mild oxidation of methane to C1 oxygenates. Applied Catalysis B: Environmental, 2021, 299, 120682.	10.8	32
138	Pt/Fe₃O₄ Core/Shell Triangular Nanoprisms by Heteroepitaxy: Facet Selectivity at the Ptâ€"Fe₃O₄ Interface and the Fe₃O₄ Outer Surface. ACS Nano, 2015, 9, 10950-10960.	7.3	31
139	Modification of Cu/SiO₂ Catalysts by La₂O₃ to Quantitatively Tune Cu⁺â€Cu⁰ Dual Sites with Improved Catalytic Activities and Stabilities for Dimethyl Ether Steam Reforming. ChemCatChem, 2018, 10, 3862-3871.	1.8	31
140	Characterization of CoMn catalyst by in situ X-ray absorption spectroscopy and wavelet analysis for Fischerâ€"Tropsch to olefins reaction. Journal of Energy Chemistry, 2019, 32, 118-123.	7.1	31
141	Dopamine sacrificial coating strategy driving formation of highly active surface-exposed Ru sites on Ru/TiO2 catalysts in Fischerâ€"Tropsch synthesis. Applied Catalysis B: Environmental, 2020, 278, 119261.	10.8	31
142	Adsorption Site Regulation to Guide Atomic Design of Niâ€"Ga Catalysts for Acetylene Semiâ€Hydrogenation. Angewandte Chemie, 2020, 132, 11744-11749.	1.6	31
143	Cu3(PO4)2/C composite as a high-capacity cathode material for rechargeable Na-ion batteries. Nano Energy, 2016, 27, 420-429.	8.2	30
144	Uniform Pt quantum dots-decorated porous g-C3N4 nanosheets for efficient separation of electron-hole and enhanced solar-driven photocatalytic performance. Journal of Colloid and Interface Science, 2018, 531, 119-125.	5.0	30

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145	Increasing the activity and selectivity of Co-based FTS catalysts supported by carbon materials for direct synthesis of clean fuels by the addition of chromium. Journal of Catalysis, 2019, 370, 251-264.	3.1	30
146	Singleâ€Atom Crâˆ’N₄ Sites Designed for Durable Oxygen Reduction Catalysis in Acid Media. Angewandte Chemie, 2019, 131, 12599-12605.	1.6	29
147	Rational design of edges of covalent organic networks for catalyzing hydrogen peroxide production. Applied Catalysis B: Environmental, 2021, 298, 120605.	10.8	29
148	Compression of ionic liquid when confined in porous silica nanoparticles. RSC Advances, 2013, 3, 9618.	1.7	27
149	Operando HERFD-XANES and surface sensitive Î”Î¼ analyses identify the structural evolution of copper(II) phthalocyanine for electroreduction of CO2. Journal of Energy Chemistry, 2022, 64, 1-7.	7.1	27
150	Tandem Catalysis for Selective Oxidation of Methane to Oxygenates Using Oxygen over PdCu/Zeolite. Angewandte Chemie - International Edition, 2022, 61, .	7.2	27
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152	Pressure-induced quantum phase transitions in a<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Yb</mml:mi><mml:msub><mml:mi mathvariant="normal">B</mml:mi><mml:mn>6</mml:mn></mml:msub></mml:mrow></mml:math>single crystal. Physical Review B, 2015, 92, .	1.1	26
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