

Zheng Jiang

List of Publications by Year in descending order

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240
papers

26,854
citations

10389

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6471

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249
all docs

249
docs citations

249
times ranked

20717
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-atom catalysis of CO oxidation using Pt ₁ /FeO _x . Nature Chemistry, 2011, 3, 634-641.	13.6	5,149
2	Low-temperature hydrogen production from water and methanol using Pt/Î±-MoC catalysts. Nature, 2017, 544, 80-83.	27.8	1,090
3	Electrocatalytic reduction of CO ₂ to ethylene and ethanol through hydrogen-assisted C-C coupling over fluorine-modified copper. Nature Catalysis, 2020, 3, 478-487.	34.4	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.	12.8	669
5	High performance platinum single atom electrocatalyst for oxygen reduction reaction. Nature Communications, 2017, 8, 15938.	12.8	569
6	An Isolated Zinc-Cobalt Atomic Pair for Highly Active and Durable Oxygen Reduction. Angewandte Chemie - International Edition, 2019, 58, 2622-2626.	13.8	494
7	Chemically activating MoS ₂ via spontaneous atomic palladium interfacial doping towards efficient hydrogen evolution. Nature Communications, 2018, 9, 2120.	12.8	461
8	Promoting electrocatalytic CO ₂ reduction to formate via sulfur-boosting water activation on indium surfaces. Nature Communications, 2019, 10, 892.	12.8	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.	13.7	436
10	Single-Atomic Ruthenium Catalytic Sites on Nitrogen-Doped Graphene for Oxygen Reduction Reaction in Acidic Medium. ACS Nano, 2017, 11, 6930-6941.	14.6	435
11	Microporous Framework Induced Synthesis of Single-Atom Dispersed Fe-N-C Acidic ORR Catalyst and Its in Situ Reduced Fe-N ₄ Active Site Identification Revealed by X-ray Absorption Spectroscopy. ACS Catalysis, 2018, 8, 2824-2832.	11.2	433
12	Dynamic oxygen adsorption on single-atomic Ruthenium catalyst with high performance for acidic oxygen evolution reaction. Nature Communications, 2019, 10, 4849.	12.8	416
13	Chromium-ruthenium oxide solid solution electrocatalyst for highly efficient oxygen evolution reaction in acidic media. Nature Communications, 2019, 10, 162.	12.8	396
14	C and N Hybrid Coordination Derived Co-C-N Complex as a Highly Efficient Electrocatalyst for Hydrogen Evolution Reaction. Journal of the American Chemical Society, 2015, 137, 15070-15073.	13.7	377
15	Highly Efficient CO ₂ Electroreduction on ZnN ₄ -based Single-Atom Catalyst. Angewandte Chemie - International Edition, 2018, 57, 12303-12307.	13.8	356
16	In-situ reconstructed Ru atom array on Î±-MnO ₂ with enhanced performance for acidic water oxidation. Nature Catalysis, 2021, 4, 1012-1023.	34.4	324
17	Identification of binuclear Co ₂ N ₅ active sites for oxygen reduction reaction with more than one magnitude higher activity than single atom CoN ₄ site. Nano Energy, 2018, 46, 396-403.	16.0	319
18	Single-Atom Cr ₂ N ₄ Sites Designed for Durable Oxygen Reduction Catalysis in Acid Media. Angewandte Chemie - International Edition, 2019, 58, 12469-12475.	13.8	307

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19	Synergistic Effect between Metalâ€“Nitrogenâ€“Carbon Sheets and NiO Nanoparticles for Enhanced Electrochemical Waterâ€“Oxidation Performance. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 10530-10534.	13.8	301
20	Zn Single Atom Catalyst for Highly Efficient Oxygen Reduction Reaction. <i>Advanced Functional Materials</i> , 2017, 27, 1700802.	14.9	296
21	A highly CO-tolerant atomically dispersed Pt catalyst for chemoselective hydrogenation. <i>Nature Nanotechnology</i> , 2019, 14, 354-361.	31.5	292
22	A stable low-temperature H ₂ -production catalyst by crowding Pt on Î±-MoC. <i>Nature</i> , 2021, 589, 396-401.	27.8	290
23	An Engineered Superhydrophilic/Superaerophobic Electrocatalyst Composed of the Supported CoMoS ₂ Chalcogel for Overall Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 1659-1665.	13.8	268
24	Carbonâ€“Supported Divacancyâ€“Anchored Platinum Singleâ€“Atom Electrocatalysts with Superhigh Pt Utilization for the Oxygen Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 1163-1167.	13.8	252
25	Manipulating spin polarization of titanium dioxide for efficient photocatalysis. <i>Nature Communications</i> , 2020, 11, 418.	12.8	252
26	Lithiation-induced amorphization of Pd ₃ P ₂ S ₈ for highly efficient hydrogen evolution. <i>Nature Catalysis</i> , 2018, 1, 460-468.	34.4	247
27	Generating Defectâ€“Rich Bismuth for Enhancing the Rate of Nitrogen Electroreduction to Ammonia. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9464-9469.	13.8	226
28	Iron Vacancies Induced Bifunctionality in Ultrathin Feroxyhyte Nanosheets for Overall Water Splitting. <i>Advanced Materials</i> , 2018, 30, e1803144.	21.0	225
29	Anchoring Cu ¹ species over nanodiamond-graphene for semi-hydrogenation of acetylene. <i>Nature Communications</i> , 2019, 10, 4431.	12.8	224
30	Enhanced Photocatalytic Activity and Electron Transfer Mechanisms of Graphene/TiO ₂ with Exposed {001} Facets. <i>Journal of Physical Chemistry C</i> , 2011, 115, 23718-23725.	3.1	223
31	Subnanometer Bimetallic Platinumâ€“Zinc Clusters in Zeolites for Propane Dehydrogenation. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 19450-19459.	13.8	221
32	Synergistic Doping and Intercalation: Realizing Deep Phase Modulation on MoS ₂ Arrays for Highâ€“Efficiency Hydrogen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 16289-16296.	13.8	201
33	An In Situ Formed Surface Coating Layer Enabling LiCoO ₂ with Stable 4.6 V Highâ€“Voltage Cycle Performances. <i>Advanced Energy Materials</i> , 2020, 10, 2001413.	19.5	201
34	Fluorination-enabled Reconstruction of NiFe Electrocatalysts for Efficient Water Oxidation. <i>Nano Letters</i> , 2021, 21, 492-499.	9.1	190
35	Visible light-driven Câˆ“H activation and Câ€“C coupling of methanol into ethylene glycol. <i>Nature Communications</i> , 2018, 9, 1181.	12.8	188
36	Carbide-Supported Au Catalysts for Waterâ€“Gas Shift Reactions: A New Territory for the Strong Metalâ€“Support Interaction Effect. <i>Journal of the American Chemical Society</i> , 2018, 140, 13808-13816.	13.7	188

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37	Confined small-sized cobalt catalysts stimulate carbon-chain growth reversely by modifying ASF law of Fischer-Tropsch synthesis. <i>Nature Communications</i> , 2018, 9, 3250.	12.8	186
38	Rational construction of oxygen vacancies onto tungsten trioxide to improve visible light photocatalytic water oxidation reaction. <i>Applied Catalysis B: Environmental</i> , 2018, 239, 398-407.	20.2	183
39	Confined Ir single sites with triggered lattice oxygen redox: Toward boosted and sustained water oxidation catalysis. <i>Joule</i> , 2021, 5, 2164-2176.	24.0	183
40	High-Valence Nickel Single-Atom Catalysts Coordinated to Oxygen Sites for Extraordinarily Activating Oxygen Evolution Reaction. <i>Advanced Science</i> , 2020, 7, 1903089.	11.2	182
41	Insights into the effects of surface/bulk defects on photocatalytic hydrogen evolution over TiO ₂ with exposed {001} facets. <i>Applied Catalysis B: Environmental</i> , 2018, 220, 126-136.	20.2	176
42	Bridge Bonded Oxygen Ligands between Approximated FeN ₄ Sites Confer Catalysts with High ORR Performance. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 13923-13928.	13.8	176
43	Weak magnetic field significantly enhances selenite removal kinetics by zero valent iron. <i>Water Research</i> , 2014, 49, 371-380.	11.3	172
44	Atomically Dispersed Ni ₁ -MoC Catalyst for Hydrogen Production from Methanol/Water. <i>Journal of the American Chemical Society</i> , 2021, 143, 309-317.	13.7	168
45	Insight into the Formation of Co@Co ₂ C Catalysts for Direct Synthesis of Higher Alcohols and Olefins from Syngas. <i>ACS Catalysis</i> , 2018, 8, 228-241.	11.2	152
46	Tin-Assisted Fully Exposed Platinum Clusters Stabilized on Defect-Rich Graphene for Dehydrogenation Reaction. <i>ACS Catalysis</i> , 2019, 9, 5998-6005.	11.2	150
47	Ag-Incorporated Organic-Inorganic Perovskite Films and Planar Heterojunction Solar Cells. <i>Nano Letters</i> , 2017, 17, 3231-3237.	9.1	149
48	Oxygen Vacancy Tuning toward Efficient Electrocatalytic CO ₂ Reduction to C ₂ H ₄ . <i>Small Methods</i> , 2019, 3, 1800449.	8.6	146
49	Comprehensive Understanding of the Spatial Configurations of CeO ₂ in NiO for the Electrocatalytic Oxygen Evolution Reaction: Embedded or Surface-Loaded. <i>Advanced Functional Materials</i> , 2018, 28, 1706056.	14.9	141
50	Simultaneous oxidative and reductive reactions in one system by atomic design. <i>Nature Catalysis</i> , 2021, 4, 134-143.	34.4	132
51	Single atom dispersed Rh-biphenyl@porous organic copolymers: highly efficient catalysts for continuous fixed-bed hydroformylation of propene. <i>Green Chemistry</i> , 2016, 18, 2995-3005.	9.0	127
52	Graphitic phosphorus coordinated single Fe atoms for hydrogenative transformations. <i>Nature Communications</i> , 2020, 11, 4074.	12.8	122
53	Wavelet analysis of extended X-ray absorption fine structure data: Theory, application. <i>Physica B: Condensed Matter</i> , 2018, 542, 12-19.	2.7	114
54	Covalent Triazine Framework Confined Copper Catalysts for Selective Electrochemical CO ₂ Reduction: Operando Diagnosis of Active Sites. <i>ACS Catalysis</i> , 2020, 10, 4534-4542.	11.2	112

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55	Adsorption Site Regulation to Guide Atomic Design of Ni ^{II} -Ga Catalysts for Acetylene Semi-hydrogenation. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 11647-11652.	13.8	111
56	Regulating coordination number in atomically dispersed Pt species on defect-rich graphene for n-butane dehydrogenation reaction. <i>Nature Communications</i> , 2021, 12, 2664.	12.8	111
57	Two-Step Carbothermal Welding To Access Atomically Dispersed Pd ₁ on Three-Dimensional Zirconia Nanonet for Direct Indole Synthesis. <i>Journal of the American Chemical Society</i> , 2019, 141, 10590-10594.	13.7	108
58	Reactant friendly hydrogen evolution interface based on di-anionic MoS ₂ surface. <i>Nature Communications</i> , 2020, 11, 1116.	12.8	108
59	In Situ Formation of Disorder-Engineered TiO ₂ (B)-Anatase Heterophase Junction for Enhanced Photocatalytic Hydrogen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 24987-24992.	8.0	103
60	Accelerated active phase transformation of NiO powered by Pt single atoms for enhanced oxygen evolution reaction. <i>Chemical Science</i> , 2018, 9, 6803-6812.	7.4	96
61	Research Progress on the Indirect Hydrogenation of Carbon Dioxide to Methanol. <i>ChemSusChem</i> , 2016, 9, 322-332.	6.8	90
62	Atomic-Level Fe ^{II} -Fe ^{III} Coupled with Fe ₃ C@Fe Nanocomposites in Carbon Matrixes as High-Efficiency Bifunctional Oxygen Catalysts. <i>Small</i> , 2020, 16, e1906057.	10.0	90
63	De-NO _x in alternative lean/rich atmospheres on La ^x Sr _x CoO ₃ perovskites. <i>Energy and Environmental Science</i> , 2011, 4, 3351.	30.8	87
64	Understanding oxygen vacancies in disorder-engineered surface and subsurface of CaTiO ₃ nanosheets on photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2020, 267, 118378.	20.2	86
65	Highly Efficient CO ₂ Electroreduction on ZnN ₄ -based Single-Atom Catalyst. <i>Angewandte Chemie</i> , 2018, 130, 12483-12487.	2.0	83
66	Sequestration of Antimonite by Zerovalent Iron: Using Weak Magnetic Field Effects to Enhance Performance and Characterize Reaction Mechanisms. <i>Environmental Science & Technology</i> , 2016, 50, 1483-1491.	10.0	81
67	In situ tuning of electronic structure of catalysts using controllable hydrogen spillover for enhanced selectivity. <i>Nature Communications</i> , 2020, 11, 4773.	12.8	81
68	Highly Ethylene-Selective Electrocatalytic CO ₂ Reduction Enabled by Isolated Cu ^I S Motifs in Metal-Organic Framework Based Precatalysts. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	81
69	CO-tolerant PEMFC Anodes Enabled by Synergistic Catalysis between Iridium Single-Atom Sites and Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 26177-26183.	13.8	81
70	High-loaded sub-6 nm Pt ₁ Co ₁ intermetallic compounds with highly efficient performance expression in PEMFCs. <i>Energy and Environmental Science</i> , 2022, 15, 278-286.	30.8	81
71	Direct Methylation of Amines with Carbon Dioxide and Molecular Hydrogen using Supported Gold Catalysts. <i>ChemSusChem</i> , 2015, 8, 3489-3496.	6.8	80
72	Trifunctional C@MnO Catalyst for Enhanced Stable Simultaneously Catalytic Removal of Formaldehyde and Ozone. <i>ACS Catalysis</i> , 2018, 8, 3164-3180.	11.2	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. <i>ACS Catalysis</i> , 2019, 9, 8772-8784.	11.2	77
74	Optimizing Electron Densities of Ni ^{II} -C Complexes by Hybrid Coordination for Efficient Electrocatalytic CO ₂ Reduction. <i>ChemSusChem</i> , 2020, 13, 929-937.	6.8	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. <i>Nano Research</i> , 2015, 8, 2329-2339.	10.4	75
76	Stabilization of Palladium Nanoparticles on Nanodiamond-Graphene Core-Shell Supports for CO Oxidation. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 15823-15826.	13.8	74
77	In situ directional formation of Co@CoO _x -embedded 1D carbon nanotubes as an efficient oxygen electrocatalyst for ultra-high rate Zn-air batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 13994-14002.	10.3	74
78	Carbon-Supported Divacancy-Anchored Platinum Single-Atom Electrocatalysts with Superhigh Pt Utilization for the Oxygen Reduction Reaction. <i>Angewandte Chemie</i> , 2019, 131, 1175-1179.	2.0	73
79	Low Temperature Oxidation of Ethane to Oxygenates by Oxygen over Iridium-Cluster Catalysts. <i>Journal of the American Chemical Society</i> , 2019, 141, 18921-18925.	13.7	72
80	Few-Atom Pt Ensembles Enable Efficient Catalytic Cyclohexane Dehydrogenation for Hydrogen Production. <i>Journal of the American Chemical Society</i> , 2022, 144, 3535-3542.	13.7	72
81	Palladium single atoms supported by interwoven carbon nanotube and manganese oxide nanowire networks for enhanced electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2018, 6, 23366-23377.	10.3	68
82	Overwhelming the Performance of Single Atoms with Atomic Clusters for Platinum-Catalyzed Hydrogen Evolution. <i>ACS Catalysis</i> , 2019, 9, 8213-8223.	11.2	68
83	Conjugated Covalent Organic Frameworks as Platinum Nanoparticle Supports for Catalyzing the Oxygen Reduction Reaction. <i>Chemistry of Materials</i> , 2020, 32, 9747-9752.	6.7	68
84	Hydrogenated Cagelike Titania Hollow Spherical Photocatalysts for Hydrogen Evolution under Simulated Solar Light Irradiation. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 23006-23014.	8.0	67
85	Constructing Mononuclear Palladium Catalysts by Precoordination/Solvothermal Polymerization: Recyclable Catalyst for Regioselective Oxidative Heck Reactions. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 2448-2453.	13.8	64
86	A general synthetic approach for hexagonal phase tungsten nitride composites and their application in the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2018, 6, 10967-10975.	10.3	62
87	A Superlattice-Stabilized Layered CuS Anode for High-Performance Aqueous Zinc-Ion Batteries. <i>ACS Nano</i> , 2021, 15, 17748-17756.	14.6	62
88	Ring-Opening Transformation of 5-Hydroxymethylfurfural Using a Golden Single-Atomic-Site Palladium Catalyst. <i>ACS Catalysis</i> , 2019, 9, 6212-6222.	11.2	60
89	Sub-nanometric Manganous Oxide Clusters in Nitrogen Doped Mesoporous Carbon Nanosheets for High-Performance Lithium-Sulfur Batteries. <i>Nano Letters</i> , 2021, 21, 700-708.	9.1	60
90	Tuning interaction between cobalt catalysts and nitrogen dopants in carbon nanospheres to promote Fischer-Tropsch synthesis. <i>Applied Catalysis B: Environmental</i> , 2019, 248, 73-83.	20.2	58

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91	Understanding the Local and Electronic Structures toward Enhanced Thermal Stable Luminescence of CaAlSiN ₃ :Eu ²⁺ . Chemistry of Materials, 2016, 28, 5505-5515.	6.7	57
92	Carbon vacancy defect-activated Pt cluster for hydrogen generation. Journal of Materials Chemistry A, 2019, 7, 15364-15370.	10.3	57
93	In situ formation of mononuclear complexes by reaction-induced atomic dispersion of supported noble metal nanoparticles. Nature Communications, 2019, 10, 5281.	12.8	57
94	Achieving efficient and robust catalytic reforming on dual-sites of Cu species. Chemical Science, 2019, 10, 2578-2584.	7.4	56
95	Defect Engineering in Polymeric Cobalt Phthalocyanine Networks for Enhanced Electrochemical CO ₂ Reduction. ChemElectroChem, 2018, 5, 2717-2721.	3.4	52
96	Atomic Design and Fine-Tuning of Subnanometric Pt Catalysts to Tame Hydrogen Generation. ACS Catalysis, 2021, 11, 4146-4156.	11.2	52
97	Highly Active Graphene Oxide-Supported Cobalt Single-Ion Catalyst for Chemiluminescence Reaction. Analytical Chemistry, 2017, 89, 13518-13523.	6.5	51
98	Cooperative Sites in Fully Exposed Pd Clusters for Low-Temperature Direct Dehydrogenation Reaction. ACS Catalysis, 2021, 11, 11469-11477.	11.2	51
99	Selective methane electrosynthesis enabled by a hydrophobic carbon coated copper core-shell architecture. Energy and Environmental Science, 2022, 15, 234-243.	30.8	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.	7.4	50
101	Interfacial-confined coordination to single-atom nanotherapeutics. Nature Communications, 2022, 13, 91.	12.8	49
102	Generating Defect-Rich Bismuth for Enhancing the Rate of Nitrogen Electroreduction to Ammonia. Angewandte Chemie, 2019, 131, 9564-9569.	2.0	47
103	Subnanometer Bimetallic Platinum-Zinc Clusters in Zeolites for Propane Dehydrogenation. Angewandte Chemie, 2020, 132, 19618-19627.	2.0	47
104	Constructing Synergistic Zn ₄ and Fe ₄ O Dual-Sites from the COF@MOF Derived Hollow Carbon for Oxygen Reduction Reaction. Small Structures, 2022, 3, .	12.0	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.	9.0	45
106	Particle Size Effects of Cobalt Carbide for Fischer-Tropsch to Olefins. ACS Catalysis, 2019, 9, 798-809.	11.2	45
107	Enhanced hydrogen generation by reverse spillover effects over bicomponent catalysts. Nature Communications, 2022, 13, 118.	12.8	44
108	A Magnetically Separable Pd Single-Atom Catalyst for Efficient Selective Hydrogenation of Phenylacetylene. Advanced Materials, 2022, 34, e2110455.	21.0	44

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109	Grafting nanometer metal/oxide interface towards enhanced low-temperature acetylene semi-hydrogenation. <i>Nature Communications</i> , 2021, 12, 5770.	12.8	43
110	Confining single Pt atoms from Pt clusters on multi-armed CdS for enhanced photocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2022, 10, 4594-4600.	10.3	43
111	Unravelling the Role of the Compressed Gas on Melting Point of Liquid Confined in Nanospace. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 1052-1055.	4.6	42
112	Selectivity Regulation in Au-Catalyzed Nitroaromatic Hydrogenation by Anchoring Single-Site Metal Oxide Promoters. <i>ACS Catalysis</i> , 2020, 10, 2837-2844.	11.2	42
113	A fully-conjugated covalent organic framework-derived carbon supporting ultra-close single atom sites for ORR. <i>Applied Catalysis B: Environmental</i> , 2022, 307, 121147.	20.2	42
114	Biocompatible Ruthenium Single-Atom Catalyst for Cascade Enzyme-Mimicking Therapy. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 45269-45278.	8.0	41
115	On-surface manipulation of atom substitution between cobalt phthalocyanine and the Cu(111) substrate. <i>RSC Advances</i> , 2017, 7, 13827-13835.	3.6	40
116	Bridge Bonded Oxygen Ligands between Approximated FeN ₄ Sites Confer Catalysts with High ORR Performance. <i>Angewandte Chemie</i> , 2020, 132, 14027-14032.	2.0	40
117	Planar substrate-binding site dictates the specificity of ECF-type nickel/cobalt transporters. <i>Cell Research</i> , 2014, 24, 267-277.	12.0	39
118	Low-Temperature Growth of Bismuth Thin Films with (111) Facet on Highly Oriented Pyrolytic Graphite. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 8525-8532.	8.0	39
119	Heat treated carbon supported iron(II)phthalocyanine oxygen reduction catalysts: elucidation of the structure-activity relationship using X-ray absorption spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 33142-33151.	2.8	39
120	Promoted alkaline hydrogen evolution by an N-doped Pt-Ru single atom alloy. <i>Journal of Materials Chemistry A</i> , 2021, 9, 14941-14947.	10.3	39
121	Synergistic Engineering of Sulfur Vacancies and Heterointerfaces in Copper Sulfide Anodes for Aqueous Zn-Ion Batteries with Fast Diffusion Kinetics and an Ultralong Lifespan. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	39
122	Interface interaction induced oxygen activation of cactus-like Co ₃ O ₄ /OMS-2 nanorod catalysts in situ grown on monolithic cordierite for diesel soot combustion. <i>Applied Catalysis B: Environmental</i> , 2021, 286, 119932.	20.2	38
123	Surface oxygen vacancies promoted Pt redispersion to single-atoms for enhanced photocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2021, 9, 13890-13897.	10.3	38
124	Cu single-atoms embedded in porous carbon nitride for selective oxidation of methane to oxygenates. <i>Chemical Communications</i> , 2020, 56, 14677-14680.	4.1	37
125	Ru single atoms for efficient chemoselective hydrogenation of nitrobenzene to azoxybenzene. <i>Green Chemistry</i> , 2021, 23, 4753-4761.	9.0	35
126	High-voltage asymmetric metal-air batteries based on polymeric single-Zn ²⁺ -ion conductor. <i>Matter</i> , 2021, 4, 1287-1304.	10.0	34

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127	A Universal Single-Atom Coating Strategy Based on Tannic Acid Chemistry for Multifunctional Heterogeneous Catalysis. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	34
128	Valence change of europium in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mrow} \langle \text{mml:msub} \langle \text{mml:mrow} \langle \text{mml:mtext} \text{EuFe} \langle \text{mml:mtext} \rangle \langle \text{mml:mrow} \langle \text{mml:mn} 2 \langle \text{mml:mn} \rangle \langle \text{mml:mtext} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mtext} \rangle \rangle \rangle \rangle \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mtext} \rangle \rangle \langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mro} \rangle \rangle \rangle \rangle \rangle \rangle$. <i>Physical Review B</i> , 2010, 82, .	3.2	33
129	Hierarchical confinement of PtZn alloy nanoparticles and single-dispersed Zn atoms on COF@MOF-derived carbon towards efficient oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2021, 9, 13625-13630.	10.3	33
130	Highly Selective Acetylene Semihydrogenation Catalyst with an Operation Window Exceeding 150 °C. <i>ACS Catalysis</i> , 2021, 11, 6073-6080.	11.2	33
131	Fabrication of NiSe ₂ by direct selenylation of a nickel surface. <i>Applied Surface Science</i> , 2018, 428, 623-629.	6.1	33
132	Proton exchange membrane fuel cells powered with both CO and H ₂ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	33
133	In Situ-Activated Indium Nanoelectrocatalysts for Highly Active and Selective CO ₂ Electroreduction around the Thermodynamic Potential. <i>ACS Catalysis</i> , 2022, 12, 8601-8609.	11.2	33
134	One-Pot Approach to a Highly Robust Iron Oxide/Reduced Graphene Oxide Nanocatalyst for Fischer-Tropsch Synthesis. <i>ChemCatChem</i> , 2013, 5, 714-719.	3.7	32
135	Addition of Pd on La _{0.7} Sr _{0.3} Co ₃ Perovskite To Enhance Catalytic Removal of NO _x . <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 521-531.	3.7	32
136	Construction of defect-engineered three-dimensionally ordered macroporous WO ₃ for efficient photocatalytic water oxidation reaction. <i>Journal of Materials Chemistry A</i> , 2021, 9, 3036-3043.	10.3	32
137	Defective C ₃ N ₄ frameworks coordinated diatomic copper catalyst: Towards mild oxidation of methane to C ₁ oxygenates. <i>Applied Catalysis B: Environmental</i> , 2021, 299, 120682.	20.2	32
138	Pt/Fe ₃ O ₄ Core/Shell Triangular Nanoprisms by Heteroepitaxy: Facet Selectivity at the Pt-Fe ₃ O ₄ Interface and the Fe ₃ O ₄ Outer Surface. <i>ACS Nano</i> , 2015, 9, 10950-10960.	14.6	31
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