Dingsheng Wang

List of Publications by Year
in descending order

346 papers	52,250 citations	668 122 h-index	1627 215 g-index
367 all docs	367 docs citations	367 times ranked	27547 citing authors

#	Article	IF	Citations
1	Single-Atom Catalysts: Synthetic Strategies and Electrochemical Applications. Joule, 2018, 2, 1242-1264.	11.7	1,618
2	Coreâ€“Shell ZIF-8@ZIF-67-Derived CoP Nanoparticle-Embedded N-Doped Carbon Nanotube Hollow Polyhedron for Efficient Overall Water Splitting. Journal of the American Chemical Society, 2018, 140, 2610-2618.	6.6	1,556
3	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.	7.2	1,542
4	Bimetallic Nanocrystals: Liquidâ€Phase Synthesis and Catalytic Applications. Advanced Materials, 2011, 23, 1044-1060.	11.1	1,009
5	Design of Single-Atom Coâ€“N₅ Catalytic Site: A Robust Electrocatalyst for CO₂ Reduction with Nearly 100% CO Selectivity and Remarkable Stability. Journal of the American Chemical Society, 2018, 140, 4218-4221.	6.6	945
6	Green chemistry for nanoparticle synthesis. Chemical Society Reviews, 2015, 44, 5778-5792.	18.7	863
7	Chemical Synthesis of Single Atomic Site Catalysts. Chemical Reviews, 2020, 120, 11900-11955.	23.0	806
8	Defect Effects on TiO₂ Nanosheets: Stabilizing Single Atomic Site Au and Promoting Catalytic Properties. Advanced Materials, 2018, 30, 1705369.	11.1	751
9	Direct observation of noble metal nanoparticles transforming to thermally stable single atoms. Nature Nanotechnology, 2018, 13, 856-861.	15.6	741
10	Enhanced oxygen reduction with single-atomic-site iron catalysts for a zinc-air battery and hydrogen-air fuel cell. Nature Communications, 2018, 9, 5422.	5.8	696
11	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
12	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.	6.6	556
13	Engineering unsymmetrically coordinated Cu-S1N3 single atom sites with enhanced oxygen reduction activity. Nature Communications, 2020, 11, 3049.	5.8	537
14	Modulating the local coordination environment of single-atom catalysts for enhanced catalytic performance. Nano Research, 2020, 13, 1842-1855.	5.8	532
15	Matching the kinetics of natural enzymes with a single-atom iron nanozyme. Nature Catalysis, 2021, 4, 407-417.	16.1	517
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.	11.1	511
17	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.	6.6	501
18	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

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19	Synthesis and catalytic properties of bimetallic nanomaterials with various architectures. Nano Today, 2012, 7, 448-466.	6.2	463
20	Electronic Metalâ€“Support Interaction of Singleâ€Atom Catalysts and Applications in Electrocatalysis. Advanced Materials, 2020, 32, e2003300.	11.1	459
21	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.	7.2	455
22	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.	6.6	452
23	Metal organic frameworks derived single atom catalysts for electrocatalytic energy conversion. Nano Research, 2019, 12, 2067-2080.	5.8	448
24	Atomicâ€Level Modulation of Electronic Density at Cobalt Singleâ€Atom Sites Derived from Metalâ€“Organic Frameworks: Enhanced Oxygen Reduction Performance. Angewandte Chemie - International Edition, 2021, 60, 3212-3221.	7.2	445
25	Defect engineering in earth-abundant electrocatalysts for CO₂ and N₂ reduction. Energy and Environmental Science, 2019, 12, 1730-1750.	15.6	439
26	Rational Design of Single Molybdenum Atoms Anchored on Nâ€Doped Carbon for Effective Hydrogen Evolution Reaction. Angewandte Chemie - International Edition, 2017, 56, 16086-16090.	7.2	431
27	Single Tungsten Atoms Supported on MOFâ€Derived Nâ€Doped Carbon for Robust Electrochemical Hydrogen Evolution. Advanced Materials, 2018, 30, e1800396.	11.1	427
28	Electronic structure and d-band center control engineering over M-doped CoP (Mâ€¯=â€¯Ni, Mn, Fe) hollow polyhedron frames for boosting hydrogen production. Nano Energy, 2019, 56, 411-419.	8.2	421
29	Single-atom Rh/N-doped carbon electrocatalyst for formic acid oxidation. Nature Nanotechnology, 2020, 15, 390-397.	15.6	420
30	Design concept for electrocatalysts. Nano Research, 2022, 15, 1730-1752.	5.8	396
31	Understanding the structure-performance relationship of active sites at atomic scale. Nano Research, 2022, 15, 6888-6923.	5.8	391
32	Photoinduction of Cu Single Atoms Decorated on UiO-66-NH₂ for Enhanced Photocatalytic Reduction of CO₂ to Liquid Fuels. Journal of the American Chemical Society, 2020, 142, 19339-19345.	6.6	373
33	Engineering Dual Singleâ€Atom Sites on 2D Ultrathin Nâ€doped Carbon Nanosheets Attaining Ultraâ€Lowâ€Temperature Zincâ€Air Battery. Angewandte Chemie - International Edition, 2022, 61, .	7.2	355
34	Isolated Single-Atom Pd Sites in Intermetallic Nanostructures: High Catalytic Selectivity for Semihydrogenation of Alkynes. Journal of the American Chemical Society, 2017, 139, 7294-7301.	6.6	354
35	Engineering the Atomic Interface with Single Platinum Atoms for Enhanced Photocatalytic Hydrogen Production. Angewandte Chemie - International Edition, 2020, 59, 1295-1301.	7.2	344
36	Shape-Dependent Catalytic Activity of Silver Nanoparticles for the Oxidation of Styrene. Chemistry - an Asian Journal, 2006, 1, 888-893.	1.7	343

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37	Electronic structure engineering to boost oxygen reduction activity by controlling the coordination of the central metal. Energy and Environmental Science, 2018, 11, 2348-2352.	15.6	336
38	Regulating the coordination structure of single-atom Fe-NxCy catalytic sites for benzene oxidation. Nature Communications, 2019, 10, 4290.	5.8	326
39	Single-atomic cobalt sites embedded in hierarchically ordered porous nitrogen-doped carbon as a superior bifunctional electrocatalyst. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12692-12697.	3.3	325
40	Syntheses of Water-Soluble Octahedral, Truncated Octahedral, and Cubic Ptâ€“Ni Nanocrystals and Their Structureâ€“Activity Study in Model Hydrogenation Reactions. Journal of the American Chemical Society, 2012, 134, 8975-8981.	6.6	322
41	Rareâ€Earth Single Erbium Atoms for Enhanced Photocatalytic CO₂ Reduction. Angewandte Chemie - International Edition, 2020, 59, 10651-10657.	7.2	314
42	A Versatile Bottomâ€up Assembly Approach to Colloidal Spheres from Nanocrystals. Angewandte Chemie - International Edition, 2007, 46, 6650-6653.	7.2	310
43	Constructing NiCo/Fe₃O₄ Heteroparticles within MOF-74 for Efficient Oxygen Evolution Reactions. Journal of the American Chemical Society, 2018, 140, 15336-15341.	6.6	310
44	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.	1.6	306
45	High-Concentration Single Atomic Pt Sites on Hollow CuSx for Selective O2 Reduction to H2O2 in Acid Solution. CheM, 2019, 5, 2099-2110.	5.8	279
46	Carbon nitride supported Fe2 cluster catalysts with superior performance for alkene epoxidation. Nature Communications, 2018, 9, 2353.	5.8	278
47	Atomic interface effect of a single atom copper catalyst for enhanced oxygen reduction reactions. Energy and Environmental Science, 2019, 12, 3508-3514.	15.6	278
48	One-Pot Protocol for Au-Based Hybrid Magnetic Nanostructures via a Noble-Metal-Induced Reduction Process. Journal of the American Chemical Society, 2010, 132, 6280-6281.	6.6	275
49	An Adjacent Atomic Platinum Site Enables Singleâ€Atom Iron with High Oxygen Reduction Reaction Performance. Angewandte Chemie - International Edition, 2021, 60, 19262-19271.	7.2	275
50	A photochromic composite with enhanced carrier separation for the photocatalytic activation of benzylic Câ€“H bonds in toluene. Nature Catalysis, 2018, 1, 704-710.	16.1	273
51	Theory-oriented screening and discovery of advanced energy transformation materials in electrocatalysis. , 2022, 1, 100013.		273
52	A Polymer Encapsulation Strategy to Synthesize Porous Nitrogenâ€Doped Carbonâ€Nanosphereâ€Supported Metal Isolatedâ€Singleâ€Atomicâ€Site Catalysts. Advanced Materials, 2018, 30, e1706508.	11.1	266
53	Accelerating water dissociation kinetics by isolating cobalt atoms into ruthenium lattice. Nature Communications, 2018, 9, 4958.	5.8	264
54	Synergistically Interactive Pyridinicâ€Nâ€“MoP Sites: Identified Active Centers for Enhanced Hydrogen Evolution in Alkaline Solution. Angewandte Chemie - International Edition, 2020, 59, 8982-8990.	7.2	263

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55	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.	6.6	259
56	Confined Pyrolysis within Metalâ€“Organic Frameworks To Form Uniform Ru₃ Clusters for Efficient Oxidation of Alcohols. Journal of the American Chemical Society, 2017, 139, 9795-9798.	6.6	258
57	Metal (Hydr)oxides@Polymer Coreâ€“Shell Strategy to Metal Single-Atom Materials. Journal of the American Chemical Society, 2017, 139, 10976-10979.	6.6	257
58	Designing Atomic Active Centers for Hydrogen Evolution Electrocatalysts. Angewandte Chemie - International Edition, 2020, 59, 20794-20812.	7.2	257
59	Single-atom catalysis enables long-life, high-energy lithium-sulfur batteries. Nano Research, 2020, 13, 1856-1866.	5.8	257
60	Cation vacancy stabilization of single-atomic-site Pt1/Ni(OH)x catalyst for diboration of alkynes and alkenes. Nature Communications, 2018, 9, 1002.	5.8	255
61	Three-dimensional open nano-netcage electrocatalysts for efficient pH-universal overall water splitting. Nature Communications, 2019, 10, 4875.	5.8	253
62	Single-atom site catalysts for environmental catalysis. Nano Research, 2020, 13, 3165-3182.	5.8	252
63	Engineering Isolated Mnâ€“N₂C₂ Atomic Interface Sites for Efficient Bifunctional Oxygen Reduction and Evolution Reaction. Nano Letters, 2020, 20, 5443-5450.	4.5	249
64	Cobalt single atom site catalysts with ultrahigh metal loading for enhanced aerobic oxidation of ethylbenzene. Nano Research, 2021, 14, 2418-2423.	5.8	248
65	Discovery of main group single Sbâ€“N₄ active sites for CO₂ electroreduction to formate with high efficiency. Energy and Environmental Science, 2020, 13, 2856-2863.	15.6	245
66	Surface structure effects in nanocrystal MnO2 and Ag/MnO2 catalytic oxidation of CO. Journal of Catalysis, 2006, 237, 426-430.	3.1	244
67	Ag, Ag₂S, and Ag₂Se Nanocrystals:â€‰ Synthesis, Assembly, and Construction of Mesoporous Structures. Journal of the American Chemical Society, 2008, 130, 4016-4022.	6.6	243
68	Regulations of active moiety in single atom catalysts for electrochemical hydrogen evolution reaction. Nano Research, 2022, 15, 5792-5815.	5.8	242
69	Functionalization of Hollow Nanomaterials for Catalytic Applications: Nanoreactor Construction. Advanced Materials, 2019, 31, e1800426.	11.1	239
70	Silver Singleâ€Atom Catalyst for Efficient Electrochemical CO₂ Reduction Synthesized from Thermal Transformation and Surface Reconstruction. Angewandte Chemie - International Edition, 2021, 60, 6170-6176.	7.2	236
71	Design of a Singleâ€Atom Indium^{Î´+}â€“N₄Interface for Efficient Electroreduction of CO₂to Formate. Angewandte Chemie - International Edition, 2020, 59, 22465-22469.	7.2	232
72	Design of ultrathin Pt-Mo-Ni nanowire catalysts for ethanol electrooxidation. Science Advances, 2017, 3, e1603068.	4.7	224

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73	Discovering Partially Charged Single-Atom Pt for Enhanced Anti-Markovnikov Alkene Hydrosilylation. Journal of the American Chemical Society, 2018, 140, 7407-7410.	6.6	218
74	Sophisticated Construction of Au Islands on Ptâ€"Ni: An Ideal Trimetallic Nanoframe Catalyst. Journal of the American Chemical Society, 2014, 136, 11594-11597.	6.6	216
75	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
76	A cocoon silk chemistry strategy to ultrathin N-doped carbon nanosheet with metal single-site catalysts. Nature Communications, 2018, 9, 3861.	5.8	210
77	Quantitative Study of Charge Carrier Dynamics in Well-Defined WO₃ Nanowires and Nanosheets: Insight into the Crystal Facet Effect in Photocatalysis. Journal of the American Chemical Society, 2018, 140, 9078-9082.	6.6	209
78	Single-Crystalline Octahedral Auâ€"Ag Nanoframes. Journal of the American Chemical Society, 2012, 134, 18165-18168.	6.6	206
79	A Supported Pd₂Dualâ€Atom Site Catalyst for Efficient Electrochemical CO₂Reduction. Angewandte Chemie - International Edition, 2021, 60, 13388-13393.	7.2	201
80	Emerging low-nuclearity supported metal catalysts with atomic level precision for efficient heterogeneous catalysis. Nano Research, 2022, 15, 7806-7839.	5.8	201
81	Temperature-Controlled Selectivity of Hydrogenation and Hydrodeoxygenation in the Conversion of Biomass Molecule by the Ru₁/mpg-C₃N₄ Catalyst. Journal of the American Chemical Society, 2018, 140, 11161-11164.	6.6	199
82	Non-carbon-supported single-atom site catalysts for electrocatalysis. Energy and Environmental Science, 2021, 14, 2809-2858.	15.6	198
83	Phosphorus Induced Electron Localization of Single Iron Sites for Boosted CO₂ Electroreduction Reaction. Angewandte Chemie - International Edition, 2021, 60, 23614-23618.	7.2	197
84	Singleâ€Atom Materials: Small Structures Determine Macroproperties. Small Structures, 2021, 2, 2000051.	6.9	195
85	Strain Engineering to Enhance the Electrooxidation Performance of Atomic-Layer Pt on Intermetallic Pt₃Ga. Journal of the American Chemical Society, 2018, 140, 2773-2776.	6.6	193
86	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
87	Nanocrystalline intermetallics and alloys. Nano Research, 2010, 3, 574-580.	5.8	190
88	The Electronic Metalâ€"Support Interaction Directing the Design of Single Atomic Site Catalysts: Achieving High Efficiency Towards Hydrogen Evolution. Angewandte Chemie - International Edition, 2021, 60, 19085-19091.	7.2	189
89	Superiority of Dualâ€Atom Catalysts in Electrocatalysis: One Step Further Than Singleâ€Atom Catalysts. Advanced Energy Materials, 2022, 12, .	10.2	189
90	Regulating the coordination structure of metal single atoms for efficient electrocatalytic CO₂ reduction. Energy and Environmental Science, 2020, 13, 4609-4624.	15.6	188

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91	Nanocrystals from solutions: catalysts. Chemical Society Reviews, 2014, 43, 2112-2124.	18.7	185
92	Platinumâ€“nickel frame within metal-organic framework fabricated in situ for hydrogen enrichment and molecular sieving. Nature Communications, 2015, 6, 8248.	5.8	184
93	Single-Atom Coâ€“N₄ Electrocatalyst Enabling Four-Electron Oxygen Reduction with Enhanced Hydrogen Peroxide Tolerance for Selective Sensing. Journal of the American Chemical Society, 2020, 142, 16861-16867.	6.6	184
94	Magnetic Tuning of Upconversion Luminescence in Lanthanideâ€Doped Bifunctional Nanocrystals. Angewandte Chemie - International Edition, 2013, 52, 4366-4369.	7.2	182
95	Gramâ€Scale Synthesis of Highâ€Loading Singleâ€Atomicâ€Site Fe Catalysts for Effective Epoxidation of Styrene. Advanced Materials, 2020, 32, e2000896.	11.1	181
96	Engineering of Coordination Environment and Multiscale Structure in Single-Site Copper Catalyst for Superior Electrocatalytic Oxygen Reduction. Nano Letters, 2020, 20, 6206-6214.	4.5	178
97	A Strategy for Designing a Concave Ptâ€“Ni Alloy through Controllable Chemical Etching. Angewandte Chemie - International Edition, 2012, 51, 12524-12528.	7.2	176
98	Rational Design of Singleâ€Atom Site Electrocatalysts: From Theoretical Understandings to Practical Applications. Advanced Materials, 2021, 33, e2008151.	11.1	175
99	Reversely trapping atoms from a perovskite surface for high-performance and durable fuel cell cathodes. Nature Catalysis, 2022, 5, 300-310.	16.1	175
100	Synthetic strategies of supported atomic clusters for heterogeneous catalysis. Nature Communications, 2020, 11, 5884.	5.8	174
101	Thermal Atomization of Platinum Nanoparticles into Single Atoms: An Effective Strategy for Engineering High-Performance Nanozymes. Journal of the American Chemical Society, 2021, 143, 18643-18651.	6.6	174
102	Isolated Ni Atoms Dispersed on Ru Nanosheets: High-Performance Electrocatalysts toward Hydrogen Oxidation Reaction. Nano Letters, 2020, 20, 3442-3448.	4.5	172
103	Nanocrystals: Solution-based synthesis and applications as nanocatalysts. Nano Research, 2009, 2, 30-46.	5.8	170
104	MOF Encapsulating Nâ€Heterocyclic Carbeneâ€Ligated Copper Singleâ€Atom Site Catalyst towards Efficient Methane Electrosynthesis. Angewandte Chemie - International Edition, 2022, 61, .	7.2	170
105	Highly Active and Selective Catalysis of Bimetallic Rh₃Ni₁ Nanoparticles in the Hydrogenation of Nitroarenes. ACS Catalysis, 2013, 3, 608-612.	5.5	167
106	Isolated Single-Atom Niâ€“N₅ Catalytic Site in Hollow Porous Carbon Capsules for Efficient Lithiumâ€“Sulfur Batteries. Nano Letters, 2021, 21, 9691-9698.	4.5	167
107	Atomic-scale engineering of chemical-vapor-deposition-grown 2D transition metal dichalcogenides for electrocatalysis. Energy and Environmental Science, 2020, 13, 1593-1616.	15.6	166
108	NiO nanorings and their unexpected catalytic property for CO oxidation. Nanotechnology, 2006, 17, 979-983.	1.3	165

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109	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.	7.2	165
110	Atomically Dispersed Ruthenium Species Inside Metalâ€“Organic Frameworks: Combining the High Activity of Atomic Sites and the Molecular Sieving Effect of MOFs. Angewandte Chemie - International Edition, 2019, 58, 4271-4275.	7.2	162
111	A MnO2-based catalyst with H2O resistance for NH3-SCR: Study of catalytic activity and reactants-H2O competitive adsorption. Applied Catalysis B: Environmental, 2020, 270, 118860.	10.8	159
112	Singleâ€Atom Fe Catalysts for Fentonâ€Like Reactions: Roles of Different N Species. Advanced Materials, 2022, 34, e2110653.	11.1	158
113	Dual-atom Pt heterogeneous catalyst with excellent catalytic performances for the selective hydrogenation and epoxidation. Nature Communications, 2021, 12, 3181.	5.8	156
114	Ruâ€“Co Pair Sites Catalyst Boosts the Energetics for the Oxygen Evolution Reaction. Angewandte Chemie - International Edition, 2022, 61, .	7.2	154
115	The Electronic Metalâ€“Support Interaction Directing the Design of Single Atomic Site Catalysts: Achieving High Efficiency Towards Hydrogen Evolution. Angewandte Chemie, 2021, 133, 19233-19239.	1.6	149
116	Highly branched Ptâ€“Ni nanocrystals enclosed by stepped surface for methanol oxidation. Chemical Science, 2012, 3, 1925.	3.7	146
117	Mesoporous Nitrogenâ€Doped Carbonâ€Nanosphereâ€Supported Isolated Singleâ€Atom Pd Catalyst for Highly Efficient Semihydrogenation of Acetylene. Advanced Materials, 2019, 31, e1901024.	11.1	146
118	Intermetallic Ni<i>_xM_y</i> (<i>M</i> = Ga and Sn) Nanocrystals: A Nonâ€precious Metal Catalyst for Semiâ€Hydrogenation of Alkynes. Advanced Materials, 2016, 28, 4747-4754.	11.1	145
119	A fundamental comprehension and recent progress in advanced Ptâ€based ORR nanocatalysts. SmartMat, 2021, 2, 56-75.	6.4	141
120	One-step synthesis of single-site vanadium substitution in 1T-WS2 monolayers for enhanced hydrogen evolution catalysis. Nature Communications, 2021, 12, 709.	5.8	137
121	In situ embedding Co9S8 into nitrogen and sulfur codoped hollow porous carbon as a bifunctional electrocatalyst for oxygen reduction and hydrogen evolution reactions. Applied Catalysis B: Environmental, 2019, 254, 186-193.	10.8	135
122	pâ€“d Orbital Hybridization Induced by a Monodispersed Ga Site on a Pt₃Mn Nanocatalyst Boosts Ethanol Electrooxidation. Angewandte Chemie - International Edition, 2022, 61, .	7.2	134
123	Room Temperature Activation of Oxygen by Monodispersed Metal Nanoparticles: Oxidative Dehydrogenative Coupling of Anilines for Azobenzene Syntheses. ACS Catalysis, 2013, 3, 478-486.	5.5	133
124	Lewis Acid Site-Promoted Single-Atomic Cu Catalyzes Electrochemical CO₂ Methanation. Nano Letters, 2021, 21, 7325-7331.	4.5	133
125	Atomically dispersed nonmagnetic electron traps improve oxygen reduction activity of perovskite oxides. Energy and Environmental Science, 2021, 14, 1016-1028.	15.6	130
126	Engineering the Local Atomic Environments of Indium Singleâ€Atom Catalysts for Efficient Electrochemical Production of Hydrogen Peroxide. Angewandte Chemie - International Edition, 2022, 61, .	7.2	127

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127	High performance electrocatalyst: Ptâ€“Cu hollow nanocrystals. Chemical Communications, 2011, 47, 8094.	2.2	125
128	General synthesis of Iâ€“IIIâ€“VI2 ternary semiconductor nanocrystals. Chemical Communications, 2008, , 2556.	2.2	123
129	Ultralong Singleâ€Crystalline Ag₂S Nanowires: Promising Candidates for Photoswitches and Roomâ€Temperature Oxygen Sensors. Advanced Materials, 2008, 20, 2628-2632.	11.1	121
130	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.	5.5	121
131	Strain Regulation to Optimize the Acidic Water Oxidation Performance of Atomicâ€Layer IrO<i>_x</i>. Advanced Materials, 2019, 31, e1903616.	11.1	121
132	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.	6.6	120
133	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
134	Hydroformylation of alkenes over rhodium supported on the metal-organic framework ZIF-8. Nano Research, 2014, 7, 1364-1369.	5.8	118
135	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.	5.8	118
136	Bringing catalytic order out of chaos with nitrogen-doped ordered mesoporous carbon. Matter, 2021, 4, 3161-3194.	5.0	117
137	Synergistic Modulation of the Separation of Photoâ€Generated Carriers via Engineering of Dual Atomic Sites for Promoting Photocatalytic Performance. Advanced Materials, 2021, 33, e2105904.	11.1	117
138	Atomically dispersed Niâ€“Ruâ€“P interface sites for high-efficiency pH-universal electrocatalysis of hydrogen evolution. Nano Energy, 2021, 80, 105467.	8.2	114
139	Complementary Operando Spectroscopy identification of in-situ generated metastable charge-asymmetry Cu2-CuN3 clusters for CO2 reduction to ethanol. Nature Communications, 2022, 13, 1322.	5.8	113
140	Singleâ€Site Au^I Catalyst for Silane Oxidation with Water. Advanced Materials, 2018, 30, 1704720.	11.1	112
141	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.	7.8	112
142	Polyoxometalateâ€Based Metalâ€“Organic Framework as Molecular Sieve for Highly Selective Semiâ€Hydrogenation of Acetylene on Isolated Single Pd Atom Sites. Angewandte Chemie - International Edition, 2021, 60, 22522-22528.	7.2	112
143	General preparation for Pt-based alloy nanoporous nanoparticles as potential nanocatalysts. Scientific Reports, 2011, 1, 37.	1.6	111
144	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

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145	Ptï£¿M (M=Cu, Co, Ni, Fe) Nanocrystals: From Small Nanoparticles to Wormlike Nanowires by Oriented Attachment. Chemistry - A European Journal, 2013, 19, 233-239.	1.7	110
146	Atomically dispersed Fe atoms anchored on COF-derived N-doped carbon nanospheres as efficient multi-functional catalysts. Chemical Science, 2020, 11, 786-790.	3.7	110
147	Monodispersed Pdâˆ'Ni Nanoparticles: Composition Control Synthesis and Catalytic Properties in the Miyauraâˆ'Suzuki Reaction. Inorganic Chemistry, 2011, 50, 2046-2048.	1.9	107
148	An efficient multifunctional hybrid electrocatalyst: Ni₂P nanoparticles on MOF-derived Co,N-doped porous carbon polyhedrons for oxygen reduction and water splitting. Chemical Communications, 2018, 54, 12101-12104.	2.2	107
149	A Site Distance Effect Induced by Reactant Molecule Matchup in Singleâ€Atom Catalysts for Fentonâ€Like Reactions. Angewandte Chemie - International Edition, 2022, 61, .	7.2	105
150	A heterogeneous iridium single-atom-site catalyst for highly regioselective carbenoid Oâ€"H bond insertion. Nature Catalysis, 2021, 4, 523-531.	16.1	103
151	Mesoporous Multicomponent Nanocomposite Colloidal Spheres: Ideal Highâ€Temperature Stable Model Catalysts. Angewandte Chemie - International Edition, 2011, 50, 3725-3729.	7.2	101
152	Engineering of Electronic States on Co₃O₄ Ultrathin Nanosheets by Cation Substitution and Anion Vacancies for Oxygen Evolution Reaction. Small, 2020, 16, e2001571.	5.2	98
153	Single-atom Fe with Fe1N3 structure showing superior performances for both hydrogenation and transfer hydrogenation of nitrobenzene. Science China Materials, 2021, 64, 642-650.	3.5	98
154	Defect-Dominated Shape Recovery of Nanocrystals: A New Strategy for Trimetallic Catalysts. Journal of the American Chemical Society, 2013, 135, 12220-12223.	6.6	96
155	Convenient fabrication of BiOBr ultrathin nanosheets with rich oxygen vacancies for photocatalytic selective oxidation of secondary amines. Nano Research, 2019, 12, 1625-1630.	5.8	96
156	Singleâ€atom catalysis for carbon neutrality. , 2022, 4, 1021-1079.		96
157	Ptâ€"Ni nanodendrites with high hydrogenation activity. Chemical Communications, 2013, 49, 2903.	2.2	95
158	Kinetically Controlling Surface Structure to Construct Defectâ€Rich Intermetallic Nanocrystals: Effective and Stable Catalysts. Advanced Materials, 2016, 28, 2540-2546.	11.1	95
159	Construction of Pd-Zn dual sites to enhance the performance for ethanol electro-oxidation reaction. Nature Communications, 2021, 12, 5273.	5.8	94
160	Strain Relaxation in Metal Alloy Catalysts Steers the Product Selectivity of Electrocatalytic CO₂ Reduction. ACS Nano, 2022, 16, 3251-3263.	7.3	94
161	Rational Control of the Selectivity of a Ruthenium Catalyst for Hydrogenation of 4â€Nitrostyrene by Strain Regulation. Angewandte Chemie - International Edition, 2017, 56, 11971-11975.	7.2	93
162	Revealing the Active Species for Aerobic Alcohol Oxidation by Using Uniform Supported Palladium Catalysts. Angewandte Chemie - International Edition, 2018, 57, 4642-4646.	7.2	93

#	Article	IF	Citations
163	Single atom alloy: An emerging atomic site material for catalytic applications. Nano Today, 2020, 34, 100917.	6.2	91
164	Creating High Regioselectivity by Electronic Metalâ€“Support Interaction of a Single-Atomic-Site Catalyst. Journal of the American Chemical Society, 2021, 143, 15453-15461.	6.6	88
165	Regulating the Catalytic Performance of Single-Atomic-Site Ir Catalyst for Biomass Conversion by Metalâ€“Support Interactions. ACS Catalysis, 2019, 9, 5223-5230.	5.5	87
166	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
167	Understanding of the major reactions in solution synthesis of functional nanomaterials. Science China Materials, 2016, 59, 938-996.	3.5	86
168	Carbon nanotube-encapsulated cobalt for oxygen reduction: integration of space confinement and N-doping. Chemical Communications, 2019, 55, 14801-14804.	2.2	85
169	Mnï£¿N₄ Oxygen Reduction Electrocatalyst: Operando Investigation of Active Sites and High Performance in Zincâ€“Air Battery. Advanced Energy Materials, 2021, 11, 2002753.	10.2	83
170	Rational Design of Single Molybdenum Atoms Anchored on Nâ€Doped Carbon for Effective Hydrogen Evolution Reaction. Angewandte Chemie, 2017, 129, 16302-16306.	1.6	82
171	How to select effective electrocatalysts: Nano or single atom?. Nano Select, 2021, 2, 492-511.	1.9	82
172	Tunable Selectivity for Electrochemical CO₂ Reduction by Bimetallic Cuâ€“Sn Catalysts: Elucidating the Roles of Cu and Sn. ACS Catalysis, 2021, 11, 11103-11108.	5.5	82
173	Carbon Nitride Photocatalysts with Integrated Oxidation and Reduction Atomic Active Centers for Improved CO₂Conversion. Angewandte Chemie - International Edition, 2022, 61, .	7.2	81
174	Ag/CeO2 nanospheres: Efficient catalysts for formaldehyde oxidation. Applied Catalysis B: Environmental, 2014, 148-149, 36-43.	10.8	77
175	Low-Temperature Synthesis of Single Palladium Atoms Supported on Defective Hexagonal Boron Nitride Nanosheet for Chemoselective Hydrogenation of Cinnamaldehyde. ACS Nano, 2021, 15, 10175-10184.	7.3	77
176	Bi2S3 nanotubes: Facile synthesis and growth mechanism. Nano Research, 2009, 2, 130-134.	5.8	76
177	Shape control of CoO and LiCoO2 nanocrystals. Nano Research, 2010, 3, 1-7.	5.8	76
178	Single-Atom Au^Iâ€“N₃ Site for Acetylene Hydrochlorination Reaction. ACS Catalysis, 2020, 10, 1865-1870.	5.5	76
179	Regulating the Tip Effect on Singleâ€Atom and Cluster Catalysts: Forming Reversible Oxygen Species with High Efficiency in Chlorine Evolution Reaction. Angewandte Chemie - International Edition, 2022, 61, .	7.2	76
180	Pd single-atom monolithic catalyst: Functional 3D structure and unique chemical selectivity in hydrogenation reaction. Science China Materials, 2021, 64, 1919-1929.	3.5	75

#	ARTICLE	IF	CITATIONS
181	Pdâ€Cu₂O and Agâ€Cu₂O Hybrid Concave Nanomaterials for an Effective Synergistic Catalyst. Angewandte Chemie - International Edition, 2013, 52, 11049-11053.	7.2	74
182	Bambooâ€Like Nitrogenâ€Doped Carbon Nanotubes with Co Nanoparticles Encapsulated at the Tips: Uniform and Largeâ€Scale Synthesis and Highâ€Performance Electrocatalysts for Oxygen Reduction. Chemistry - A European Journal, 2015, 21, 14022-14029.	1.7	74
183	Isolated Iron Single-Atomic Site-Catalyzed Chemoselective Transfer Hydrogenation of Nitroarenes to Arylamines. ACS Applied Materials & Interfaces, 2019, 11, 33819-33824.	4.0	74
184	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
185	Engineering Water Molecules Activation Center on Multisite Electrocatalysts for Enhanced CO₂ Methanation. Journal of the American Chemical Society, 2022, 144, 12807-12815.	6.6	74
186	Irâ€“Cu nanoframes: one-pot synthesis and efficient electrocatalysts for oxygen evolution reaction. Chemical Communications, 2016, 52, 3793-3796.	2.2	73
187	Co-MOF as an electron donor for promoting visible-light photoactivities of g-C3N4 nanosheets for CO2 reduction. Chinese Journal of Catalysis, 2020, 41, 514-523.	6.9	72
188	Toward Bifunctional Overall Water Splitting Electrocatalyst: General Preparation of Transition Metal Phosphide Nanoparticles Decorated N-Doped Porous Carbon Spheres. ACS Applied Materials & Interfaces, 2018, 10, 44201-44208.	4.0	71
189	Interface Engineering of Partially Phosphidated Co@Coâ€“P@NPCNTs for Highly Enhanced Electrochemical Overall Water Splitting. Small, 2020, 16, e2002124.	5.2	71
190	Striding the threshold of an atom era of organic synthesis by single-atom catalysis. CheM, 2022, 8, 119-140.	5.8	71
191	Porous organic cage stabilised palladium nanoparticles: efficient heterogeneous catalysts for carbonylation reaction of aryl halides. Chemical Communications, 2018, 54, 2796-2799.	2.2	70
192	Ultrathin Auâ€“Ag bimetallic nanowires with Coulomb blockade effects. Chemical Communications, 2011, 47, 5160.	2.2	69
193	Fabricating polyoxometalates-stabilized single-atom site catalysts in confined space with enhanced activity for alkynes diboration. Nature Communications, 2021, 12, 4205.	5.8	69
194	One-Pot Protocol for Bimetallic Pt/Cu Hexapod Concave Nanocrystals with Enhanced Electrocatalytic Activity. Scientific Reports, 2013, 3, 1404.	1.6	68
195	Bimetallic Pdâ€“Cu nanocrystals and their tunable catalytic properties. Chemical Communications, 2014, 50, 4588.	2.2	68
196	Effective Octadecylamine System for Nanocrystal Synthesis. Inorganic Chemistry, 2011, 50, 5196-5202.	1.9	65
197	Fabricating Pd isolated single atom sites on C3N4/rGO for heterogenization of homogeneous catalysis. Nano Research, 2020, 13, 947-951.	5.8	65
198	Preparation of hexagonal ultrathin WO3 nano-ribbons and their electrochemical performance as an anode material in lithium ion batteries. Nano Research, 2016, 9, 435-441.	5.8	64

#	Article	IF	Citations
199	Carbonâ€Supported Singleâ€Atom Catalysts for Formic Acid Oxidation and Oxygen Reduction Reactions. Small, 2021, 17, e2004500.	5.2	63
200	Electronically Engineering Water Resistance in Methane Combustion with an Atomically Dispersed Tungsten on PdO Catalyst. Angewandte Chemie - International Edition, 2022, 61, .	7.2	63
201	Downstream Processing Strategies for Ligninâ€First Biorefinery. ChemSusChem, 2020, 13, 5199-5212.	3.6	62
202	High-Loading Single-Atomic-Site Silver Catalysts with an Ag₁â€"C₂N₁ Structure Showing Superior Performance for Epoxidation of Styrene. ACS Catalysis, 2021, 11, 4946-4954.	5.5	62
203	PdAg bimetallic electrocatalyst for highly selective reduction of CO2 with low COOH* formation energy and facile CO desorption. Nano Research, 2019, 12, 2866-2871.	5.8	61
204	The atomic-level regulation of single-atom site catalysts for the electrochemical CO₂ reduction reaction. Chemical Science, 2021, 12, 4201-4215.	3.7	61
205	Ptâ€"M (M = Cu, Fe, Zn, etc.) bimetallic nanomaterials with abundant surface defects and robust catalytic properties. Chemical Communications, 2016, 52, 5985-5988.	2.2	60
206	Hydrothermal synthesis of orthorhombic LiMnO2 nano-particles and LiMnO2 nanorods and comparison of their electrochemical performances. Nano Research, 2009, 2, 923-930.	5.8	59
207	Heterogeneous catalysis for green chemistry based on nanocrystals. National Science Review, 2015, 2, 150-166.	4.6	59
208	Engineering the Atomic Interface with Single Platinum Atoms for Enhanced Photocatalytic Hydrogen Production. Angewandte Chemie, 2020, 132, 1311-1317.	1.6	59
209	Single-atom electrocatalysis: a new approach to in vivo electrochemical biosensing. Science China Chemistry, 2019, 62, 1720-1724.	4.2	57
210	Promoting electrocatalytic methanol oxidation of platinum nanoparticles by cerium modification. Nano Energy, 2020, 73, 104784.	8.2	54
211	Single atomic site catalysts: synthesis, characterization, and applications. Chemical Communications, 2020, 56, 7687-7697.	2.2	53
212	Directly Assembling Ligand-Free ZnO Nanocrystals into Three-Dimensional Mesoporous Structures by Oriented Attachment. Inorganic Chemistry, 2011, 50, 5841-5847.	1.9	52
213	Ultrathin Ptâ€"Zn Nanowires: High-Performance Catalysts for Electrooxidation of Methanol and Formic Acid. ACS Sustainable Chemistry and Engineering, 2018, 6, 77-81.	3.2	52
214	Construction of Dualâ€Activeâ€Site Copper Catalyst Containing both Cuï£¿N₃ and Cuï£¿N₄ Sites. Small, 2021, 17, e2006834.	5.2	52
215	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, 2018, 130, 8750-8754.	1.6	51
216	Heterogeneous Single Atom Environmental Catalysis: Fundamentals, Applications, and Opportunities. Advanced Functional Materials, 2022, 32, 2108381.	7.8	51

#	Article	IF	Citations
217	Phase-transfer interface promoted corrosion from PtNi10 nanoctahedra to Pt4Ni nanoframes. Nano Research, 2015, 8, 140-155.	5.8	50
218	Copper Nanocrystal Plane Effect on Stereoselectivity of Catalytic Deoxygenation of Aromatic Epoxides. Journal of the American Chemical Society, 2015, 137, 3791-3794.	6.6	50
219	Porous bimetallic Pt-Fe nanocatalysts for highly efficient hydrogenation of acetone. Nano Research, 2015, 8, 2706-2713.	5.8	49
220	ZIF-derived porous carbon supported Pd nanoparticles within mesoporous silica shells: sintering- and leaching-resistant coreâ€“shell nanocatalysts. Chemical Communications, 2017, 53, 9490-9493.	2.2	49
221	Sub-nm ruthenium cluster as an efficient and robust catalyst for decomposition and synthesis of ammonia: Break the â€œsize shacklesâ€ Nano Research, 2018, 11, 4774-4785.	5.8	49
222	Surface Hexagonal Pt₁Sn₁ Intermetallic on Pt Nanoparticles for Selective Propane Dehydrogenation. ACS Applied Materials & Interfaces, 2020, 12, 25903-25909.	4.0	49
223	Rareâ€Earth Single Erbium Atoms for Enhanced Photocatalytic CO₂ Reduction. Angewandte Chemie, 2020, 132, 10738-10744.	1.6	49
224	Ru₁Co<i>_n</i> Single-Atom Alloy for Enhancing Fischerâ€“Tropsch Synthesis. ACS Catalysis, 2021, 11, 1886-1896.	5.5	49
225	Controllable synthesis of Cu-based nanocrystals in ODA solvent. Chemical Communications, 2011, 47, 3604.	2.2	48
226	Heterogeneous selective hydrogenation of ethylene carbonate to methanol and ethylene glycol over a copper chromite nanocatalyst. Chemical Communications, 2015, 51, 1252-1254.	2.2	48
227	Porous Î³-Fe2O3 nanoparticle decorated with atomically dispersed platinum: Study on atomic site structural change and gas sensor activity evolution. Nano Research, 2021, 14, 1435-1442.	5.8	46
228	Lowâ€dimensional material supported singleâ€atom catalysts for electrochemical CO₂ reduction. SmartMat, 2022, 3, 84-110.	6.4	46
229	Free-standing palladium-nickel alloy wavy nanosheets. Nano Research, 2016, 9, 2244-2250.	5.8	45
230	Synergistically Interactive Pyridinicâ€Nâ€“MoP Sites: Identified Active Centers for Enhanced Hydrogen Evolution in Alkaline Solution. Angewandte Chemie, 2020, 132, 9067-9075.	1.6	45
231	Anion-exchange-mediated internal electric field for boosting photogenerated carrier separation and utilization. Nature Communications, 2021, 12, 4952.	5.8	45
232	Atomicâ€Level Modulation of Electronic Density at Cobalt Singleâ€Atom Sites Derived from Metalâ€“Organic Frameworks: Enhanced Oxygen Reduction Performance. Angewandte Chemie, 2021, 133, 3249-3258.	1.6	44
233	Recent Progress in Thermal Conversion of CO₂ via Singleâ€Atom Site Catalysis. Small Structures, 2022, 3, .	6.9	44
234	Preparation and electrochemical characterization of ultrathin WO3âˆ’x /C nanosheets as anode materials in lithium ion batteries. Nano Research, 2017, 10, 1903-1911.	5.8	43

#	Article	IF	Citations
235	Two-dimensional SnO_2/graphene heterostructures for highly reversible electrochemical lithium storage. Science China Materials, 2018, 61, 1527-1535.	3.5	42
236	Modulating the photoelectrons of g-C_3N_4 via coupling $MgTi_2O_5$ as appropriate platform for visible-light-driven photocatalytic solar energy conversion. Nano Research, 2019, 12, 1931-1936.	5.8	42
237	Challenges and opportunities for manganese oxides in low-temperature selective catalytic reduction of NO_x with NH_3: H_2O resistance ability. Journal of Solid State Chemistry, 2020, 289, 121464.	1.4	42
238	Progress in organic reactions catalyzed by bimetallic nanomaterials. Chinese Journal of Catalysis, 2013, 34, 1964-1974.	6.9	40
239	Rhodiumâ€“nickel bimetallic nanocatalysts: high performance of room-temperature hydrogenation. Chemical Communications, 2013, 49, 303-305.	2.2	40
240	Highly efficient CeO_2-supported noble-metal catalysts: From single atoms to nanoclusters. Chem Catalysis, 2022, 2, 1594-1623.	2.9	39
241	Template-Free Synthesis and Characterization of Single-Phase Voided Poly(<i>o</i>-anisidine) and Polyaniline Colloidal Spheres. Chemistry of Materials, 2007, 19, 5773-5778.	3.2	38
242	Semiconductorâ€“noble metal hybrid nanomaterials with controlled structures. Journal of Materials Chemistry A, 2013, 1, 1587-1590.	5.2	38
243	Single-atom site catalysts supported on two-dimensional materials for energy applications. Chinese Chemical Letters, 2021, 32, 3771-3781.	4.8	38
244	Bi/Zn Dual Singleâ€Atom Catalysts for Electroreduction of CO₂ to Syngas. ChemCatChem, 2022, 14, .	1.8	37
245	Kinked gold nanowires and their SPR/SERS properties. Chemical Communications, 2011, 47, 9909.	2.2	36
246	Energy Upconversion in Lanthanide-Doped Core/Porous-Shell Nanoparticles. Inorganic Chemistry, 2014, 53, 3257-3259.	1.9	35
247	Ultra-thin Cu₂S nanosheets: effective cocatalysts for photocatalytic hydrogen production. Chemical Communications, 2015, 51, 13305-13308.	2.2	35
248	Pd-dispersed CuS hetero-nanoplates for selective hydrogenation of phenylacetylene. Nano Research, 2016, 9, 1209-1219.	5.8	35
249	Atom-level interfacial synergy of single-atom site catalysts for electrocatalysis. Journal of Energy Chemistry, 2022, 65, 103-115.	7.1	35
250	Pd and Au@Pd nanodendrites: a one-pot synthesis and their superior catalytic properties. Chemical Communications, 2014, 50, 6141.	2.2	34
251	Notched-Polyoxometalate Strategy to Fabricate Atomically Dispersed Ru Catalysts for Biomass Conversion. ACS Catalysis, 2021, 11, 2669-2675.	5.5	34
252	Metal-organic frameworks-derived nitrogen-doped carbon supported nanostructured PtNi catalyst for enhanced hydrosilylation of 1-octene. Nano Research, 2019, 12, 2584-2588.	5.8	33

#	Article	IF	Citations
253	Structure regulation of noble-metal-based nanomaterials at an atomic level. Nano Today, 2019, 26, 164-175.	6.2	33
254	Tandem catalyzing the hydrodeoxygenation of 5-hydroxymethylfurfural over a Ni₃Fe intermetallic supported Pt single-atom site catalyst. Chemical Science, 2021, 12, 4139-4146.	3.7	33
255	2D materials modulating layered double hydroxides for electrocatalytic water splitting. Chinese Journal of Catalysis, 2022, 43, 1380-1398.	6.9	33
256	Atomic Thickness Catalysts: Synthesis and Applications. Small Methods, 2020, 4, 2000248.	4.6	32
257	Facet engineering in metal organic frameworks to improve their electrochemical activity for water oxidation. Chemical Communications, 2020, 56, 4316-4319.	2.2	32
258	An Adjacent Atomic Platinum Site Enables Singleâ€Atom Iron with High Oxygen Reduction Reaction Performance. Angewandte Chemie, 2021, 133, 19411-19420.	1.6	32
259	Al³⁺ Dopants Induced Mg²⁺ Vacancies Stabilizing Single-Atom Cu Catalyst for Efficient Free-Radical Hydrophosphinylation of Alkenes. Journal of the American Chemical Society, 2022, 144, 4321-4326.	6.6	32
260	Ultrathin CuO nanorods: controllable synthesis and superior catalytic properties in styrene epoxidation. Chemical Communications, 2015, 51, 8817-8820.	2.2	31
261	Adsorption Site Regulation to Guide Atomic Design of Niâ€“Ga Catalysts for Acetylene Semiâ€Hydrogenation. Angewandte Chemie, 2020, 132, 11744-11749.	1.6	31
262	An efficientfficient, controllable and facile two-step synthesis strategy: Fe3O4@RGO composites with various Fe3O4 nanoparticles and their supercapacitance properties. Nano Research, 2017, 10, 3303-3313.	5.8	29
263	Revealing the Active Species for Aerobic Alcohol Oxidation by Using Uniform Supported Palladium Catalysts. Angewandte Chemie, 2018, 130, 4732-4736.	1.6	29
264	Single-atomic-site cobalt stabilized on nitrogen and phosphorus co-doped carbon for selective oxidation of primary alcohols. Nanoscale Horizons, 2019, 4, 902-906.	4.1	29
265	Design of a Singleâ€Atom Indium Î´+ â€“N 4 Interface for Efficient Electroreduction of CO 2 to Formate. Angewandte Chemie, 2020, 132, 22651-22655.	1.6	29
266	A Supported Pd₂Dualâ€Atom Site Catalyst for Efficient Electrochemical CO₂Reduction. Angewandte Chemie, 2021, 133, 13500-13505.	1.6	29
267	Electronic structure regulations of single-atom site catalysts and their effects on the electrocatalytic performances. Applied Physics Reviews, 2021, 8, .	5.5	29
268	Rare-earth single atom based luminescent composite nanomaterials: Tunable full-color single phosphor and applications in WLEDs. Nano Research, 2022, 15, 3594-3605.	5.8	28
269	Engineering the Local Atomic Environments of Indium Singleâ€Atom Catalysts for Efficient Electrochemical Production of Hydrogen Peroxide. Angewandte Chemie, 2022, 134, .	1.6	27
270	Synthetic strategies for MOF-based single-atom catalysts for photo- and electro-catalytic CO2 reduction. IScience, 2022, 25, 104177.	1.9	26

#	ARTICLE	IF	CITATIONS
271	Atomically Dispersed Ruthenium Species Inside Metalâ€“Organic Frameworks: Combining the High Activity of Atomic Sites and the Molecular Sieving Effect of MOFs. Angewandte Chemie, 2019, 131, 4315-4319.	1.6	25
272	Electronics and coordination engineering of atomic cobalt trapped by oxygen-driven defects for efficient cathode in solar cells. Nano Energy, 2021, 89, 106365.	8.2	25
273	Regulating the Tip Effect on Singleâ€Atom and Cluster Catalysts: Forming Reversible Oxygen Species with High Efficiency in Chlorine Evolution Reaction. Angewandte Chemie, 2022, 134, .	1.6	25
274	Platinumâ€“Copper Nanoframes: Oneâ€Pot Synthesis and Enhanced Electrocatalytic Activity. Chemistry - A European Journal, 2016, 22, 4960-4965.	1.7	24
275	Ordered Porous Nitrogenâ€Doped Carbon Matrix with Atomically Dispersed Cobalt Sites as an Efficient Catalyst for Dehydrogenation and Transfer Hydrogenation of Nâ€Heterocycles. Angewandte Chemie, 2018, 130, 11432-11436.	1.6	24
276	Engineering Dual Singleâ€Atom Sites on 2D Ultrathin Nâ€doped Carbon Nanosheets Attaining Ultraâ€Lowâ€Temperature Zincâ€Air Battery. Angewandte Chemie, 0, , .	1.6	24
277	A Site Distance Effect Induced by Reactant Molecule Matchup in Singleâ€Atom Catalysts for Fentonâ€Like Reactions. Angewandte Chemie, 2022, 134, .	1.6	24
278	Seed-mediated synthesis of hexameric octahedral PtPdCu nanocrystals with high electrocatalytic performance. Chemical Communications, 2015, 51, 15406-15409.	2.2	23
279	Nano PdAu Bimetallic Alloy as an Effective Catalyst for the Buchwaldâ€“Hartwig Reaction. Chemistry - an Asian Journal, 2016, 11, 351-355.	1.7	23
280	Constructing radially oriented macroporous spheres with central cavities as ultrastable lithium-ion battery anodes. Energy Storage Materials, 2019, 17, 242-252.	9.5	23
281	Synthesis of Luminescent Cubic Phase One-Dimensional CuI Nanostructures in Solution. Crystal Growth and Design, 2010, 10, 3387-3390.	1.4	22
282	Silver Singleâ€Atom Catalyst for Efficient Electrochemical CO₂ Reduction Synthesized from Thermal Transformation and Surface Reconstruction. Angewandte Chemie, 2021, 133, 6235-6241.	1.6	22
283	Phosphorus Induced Electron Localization of Single Iron Sites for Boosted CO₂ Electroreduction Reaction. Angewandte Chemie, 2021, 133, 23806-23810.	1.6	22
284	Atomic-level insights into the steric hindrance effect of single-atom Pd catalyst to boost the synthesis of dimethyl carbonate. Applied Catalysis B: Environmental, 2022, 304, 120922.	10.8	22
285	Boosting Electrochemical Styrene Transformation via Tandem Water Oxidation over a Singleâ€Atom Cr₁/CoSe₂ Catalyst. Advanced Materials, 2022, 34, e2200302.	11.1	22
286	Palladium/tin bimetallic single-crystalline hollow nanospheres. Chemical Communications, 2012, 48, 1683-1685.	2.2	20
287	Facile synthesis of CoNi_x nanoparticles embedded in nitrogenâ€“carbon frameworks for highly efficient electrocatalytic oxygen evolution. Chemical Communications, 2017, 53, 12177-12180.	2.2	20
288	Design and structural engineering of single-atomic-site catalysts for acidic oxygen reduction reaction. Trends in Chemistry, 2021, 3, 954-968.	4.4	20

#	Article	IF	Citations
289	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
290	Systematic Synthesis of ZnO Nanostructures. Chemistry - A European Journal, 2013, 19, 3735-3740.	1.7	19
291	Facile synthesis of Ag-doped ZnCdS nanocrystals and transformation into Ag-doped ZnCdSSe nanocrystals with Se treatment. RSC Advances, 2015, 5, 1083-1090.	1.7	19
292	Au/CuSiO3 nanotubes: High-performance robust catalysts for selective oxidation of ethanol to acetaldehyde. Nano Research, 2016, 9, 2681-2686.	5.8	19
293	MOF derived high-density atomic platinum heterogeneous catalyst for Câ€“H bond activation. Materials Chemistry Frontiers, 2020, 4, 1158-1163.	3.2	19
294	Transforming cobalt hydroxide nanowires into single atom site catalysts. Nano Energy, 2021, 83, 105799.	8.2	19
295	pâ€“d Orbital Hybridization Induced by a Monodispersed Ga Site on a Pt₃Mn Nanocatalyst Boosts Ethanol Electrooxidation. Angewandte Chemie, 2022, 134, .	1.6	19
296	Carbon Nitride Photocatalysts with Integrated Oxidation and Reduction Atomic Active Centers for Improved CO₂Conversion. Angewandte Chemie, 2022, 134, .	1.6	19
297	Fabrication of 1D nickel sulfide nanocrystals with high capacitances and remarkable durability. RSC Advances, 2014, 4, 47513-47516.	1.7	18
298	Design aktiver atomarer Zentren fÃ¼r HERâ€Elektrokatalysatoren. Angewandte Chemie, 2020, 132, 20978-20998.	1.6	18
299	Atomically dispersed Ni anchored on polymer-derived mesh-like N-doped carbon nanofibers as an efficient CO2 electrocatalytic reduction catalyst. Nano Research, 2022, 15, 3959-3963.	5.8	18
300	Bimetallic PdCo catalyst for selective direct formylation of amines by carbon monoxide. Nano Research, 2017, 10, 890-896.	5.8	17
301	A general bottom-up synthesis of CuO-based trimetallic oxide mesocrystal superstructures for efficient catalytic production of trichlorosilane. Nano Research, 2020, 13, 2819-2827.	5.8	17
302	The synthetic strategies for single atomic site catalysts based on metalâ€“organic frameworks. Nanoscale, 2020, 12, 20580-20589.	2.8	17
303	Surface-structure tailoring of ultrafine PtCu nanowires for enhanced electrooxidation of alcohols. Science China Materials, 2021, 64, 601-610.	3.5	17
304	Platinumâ€“Ruthenium Single Atom Alloy as a Bifunctional Electrocatalyst toward Methanol and Hydrogen Oxidation Reactions. ACS Applied Materials & Interfaces, 2022, 14, 27814-27822.	4.0	17
305	Interface-induced formation of onion-like alloy nanocrystals by defects engineering. Nano Research, 2016, 9, 584-592.	5.8	15
306	Single-atom catalysts: stimulating electrochemical CO₂ reduction reaction in the industrial era. Journal of Materials Chemistry A, 2022, 10, 5863-5877.	5.2	15

#	Article	IF	Citations
307	MOF Encapsulating Nâ€Heterocyclic Carbeneâ€Ligated Copper Singleâ€Atom Site Catalyst towards Efficient Methane Electrosynthesis. Angewandte Chemie, 2022, 134, e202114450.	1.6	15
308	BaWO₄:Ln³⁺ Nanocrystals: Controllable Synthesis, Theoretical Investigation on the Substitution Site, and Bright Upconversion Luminescence as a Sensor for Glucose Detection. ACS Applied Nano Materials, 2018, 1, 4762-4770.	2.4	14
309	Enhanced Visibleâ€Light Photoactivities of Perovskiteâ€Type LaFeO₃ Nanocrystals by Simultaneously Doping Er³⁺ and Coupling MgO for CO₂ Reduction. ChemCatChem, 2020, 12, 623-630.	1.8	14
310	Rareâ€Earth Oxide Nanostructures: Rules of Rareâ€Earth Nitrate Thermolysis in Octadecylamine. Chemistry - an Asian Journal, 2010, 5, 925-931.	1.7	13
311	Silver Iodide Nanospheres Wrapped in Reduced Graphene Oxide for Enhanced Photocatalysis. ChemCatChem, 2015, 7, 2918-2923.	1.8	13
312	Highly chemoselective hydrogenation of active benzaldehydes to benzyl alcohols catalyzed by bimetallic nanoparticles. Tetrahedron Letters, 2015, 56, 6460-6462.	0.7	13
313	Atomic Evolution of Metalâ€“Organic Frameworks into Coâ€“N₃ Coupling Vacancies by Cooperative Cascade Protection Strategy for Promoting Triiodide Reduction. Journal of Physical Chemistry C, 2021, 125, 6147-6156.	1.5	13
314	Preparation of Nearly Monodisperse Nanoscale Inorganic Pigments. Chemistry - an Asian Journal, 2006, 1, 91-94.	1.7	12
315	A used battery supported Ag catalyst for efficient oxidation of alcohols and carbon oxide. RSC Advances, 2014, 4, 25384-25388.	1.7	12
316	Rational Control of the Selectivity of a Ruthenium Catalyst for Hydrogenation of 4â€Nitrostyrene by Strain Regulation. Angewandte Chemie, 2017, 129, 12133-12137.	1.6	12
317	PtAl truncated octahedron nanocrystals for improved formic acid electrooxidation. Chemical Communications, 2018, 54, 3951-3954.	2.2	12
318	Identifying the Types and Characterization of the Active Sites on Mâˆ’Xâˆ’C Singleâ€Atom Catalysts. ChemPhysChem, 2020, 21, 2486-2496.	1.0	12
319	Ruâ€Co Pair Sites Catalyst Boosts the Energetics for Oxygen Evolution Reaction. Angewandte Chemie, 0, , .	1.6	12
320	Synthesis of palladium and palladium sulfide nanocrystals via thermolysis of a Pdâ€“thiolate cluster. Science China Materials, 2015, 58, 936-943.	3.5	11
321	Revealing the surface atomic arrangement of noble metal alkane dehydrogenation catalysts by a stepwise reduction-oxidation approach. Nano Research, 2023, 16, 4499-4505.	5.8	11
322	Synthesis, Structures of <scp>2D</scp> Coordination Layers <scp>Metalâ€Organic</scp> Frameworks with Highly Selective <scp>CO₂</scp> Uptake^{â€}. Chinese Journal of Chemistry, 2021, 39, 2789-2794.	2.6	11
323	Growth and assembly of monodisperse Ag nanoparticles by exchanging the organic capping ligands. Journal of Materials Research, 2009, 24, 352-356.	1.2	10
324	C/N-sensitized self-assembly of mesostructured TiO2 nanospheres with significantly enhanced photocatalytic activity. New Journal of Chemistry, 2013, 37, 2582.	1.4	10

#	Article	IF	Citations
325	Interface-Mediated Synthesis of Transition-Metal (Mn, Co, and Ni) Hydroxide Nanoplates. Crystal Growth and Design, 2013, 13, 1949-1954.	1.4	10
326	Polyoxometalateâ€Based Metalâ€“Organic Framework as Molecular Sieve for Highly Selective Semiâ€Hydrogenation of Acetylene on Isolated Single Pd Atom Sites. Angewandte Chemie, 2021, 133, 22696-22702.	1.6	10
327	Bimetallic Nanocrystals: Bimetallic Nanocrystals: Liquid-Phase Synthesis and Catalytic Applications (Adv. Mater. 9/2011). Advanced Materials, 2011, 23, 1036-1036.	11.1	9
328	Machine learning: The trends of developing high-efficiency single-atom materials. Chem Catalysis, 2021, 1, 24-26.	2.9	9
329	Electronically Engineering Water Resistance in Methane Combustion with an Atomically Dispersed Tungsten on PdO Catalyst. Angewandte Chemie, 2022, 134, .	1.6	9
330	Preparation of bimetallic nanocrystals by coreduction of mixed metal ions in a liquidâ€“solidâ€“solution synthetic system according to the electronegativity of alloys. CrystEngComm, 2013, 15, 4806.	1.3	8
331	Hydrogenation of (N,N-disubstituted aminomethyl)nitrobenzenes to (N,N-disubstituted) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 5 47125-47130.	1.7	7
332	A facile strategy for the synthesis of branched Ptâ€“Pdâ€“M (M = Co, Ni) trimetallic nanocrystals. CrystEngComm, 2016, 18, 4023-4026.	1.3	7
333	Luminescent material with functionalized graphitic carbon nitride as a photovoltaic booster in DSSCs: Enhanced charge separation and transfer. Journal of Materials Research, 2019, 34, 616-625.	1.2	7
334	Singleâ€Atom Materials: Small Structures Determine Macroproperties. Small Structures, 2021, 2, 2170006.	6.9	7
335	Stable, Efficient, Copper Coordination Polymer-Derived Heterostructured Catalyst for Oxygen Evolution under pH-Universal Conditions. ACS Applied Materials & Interfaces, 2021, 13, 25461-25471.	4.0	7
336	Controllable synthesis of Ptâ€“Cu nanocrystals and their tunable catalytic properties. CrystEngComm, 2016, 18, 3764-3767.	1.3	6
337	InnenrÃ¼cktitelbild: Isolated Single Iron Atoms Anchored on Nâ€Doped Porous Carbon as an Efficient Electrocatalyst for the Oxygen Reduction Reaction (Angew. Chem. 24/2017). Angewandte Chemie, 2017, 129, 7107-7107.	1.6	6
338	Hydrothermal Synthesis of Mn-Doped ZnSe Quantum Dots and Effects of Surface Overcoating on Their Optical Properties. Science of Advanced Materials, 2014, 6, 2275-2280.	0.1	6
339	Shape-Dependent Catalytic Activity of CuO/MgO Nanocatalysts. Journal of Nanoscience and Nanotechnology, 2007, 7, 3602-3606.	0.9	5
340	Room-Temperature Hydrogenation of Citral Catalyzed by Palladium-Silver Nanocrystals Supported on SnO2. European Journal of Inorganic Chemistry, 2015, 2015, 2120-2124.	1.0	5
341	Chemoselective hydrogenation of nitrobenzyl ethers to aminobenzyl ethers catalyzed by palladiumâ€“nickel bimetallic nanoparticles. Tetrahedron, 2015, 71, 9240-9244.	1.0	5
342	Synthesis of LiV3O8 nanorods and shape-dependent electrochemical performance. Journal of Materials Research, 2011, 26, 424-429.	1.2	3

#	Article	IF	Citations
343	A general strategy to prepare atomically dispersed biomimetic catalysts based on hostâ€"guest chemistry. Chemical Communications, 2021, 57, 1895-1898.	2.2	2
344	Enhanced luminescence through interface energy transfer in hierarchical heterogeneous nanocomposites and application in white LEDs. Journal of Colloid and Interface Science, 2021, 583, 204-213.	5.0	1
345	Bimetal catalytic nanomaterials. Scientia Sinica Chimica, 2014, 44, 85-99.	0.2	1
346	Oxygen Reduction Reaction: Mnï£¿N₄ Oxygen Reduction Electrocatalyst: Operando Investigation of Active Sites and High Performance in Zincâ€"Air Battery (Adv. Energy Mater. 6/2021). Advanced Energy Materials, 2021, 11, 2170025.	10.2	0