Dingsheng Wang

List of Publications by Year
in descending order

491	60,112	435 131	1198 228
papers	citations	h-index	g-index

518	518	518	37869
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Single-Atom Catalysts: Synthetic Strategies and Electrochemical Applications. Joule, 2018, 2, 1242-1264.	24.7	1,758
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.	14.6	1,648
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.	14.8	1,643
4	Bimetallic Nanocrystals: Liquidâ€Phase Synthesis and Catalytic Applications. Advanced Materials, 2011, 23, 1044-1060.	24.3	1,026
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.	14.6	1,009
6	Green chemistry for nanoparticle synthesis. Chemical Society Reviews, 2015, 44, 5778-5792.	40.3	921
7	Chemical Synthesis of Single Atomic Site Catalysts. Chemical Reviews, 2020, 120, 11900-11955.	51.4	915
8	Direct observation of noble metal nanoparticles transforming to thermally stable single atoms. Nature Nanotechnology, 2018, 13, 856-861.	30.5	823
9	Defect Effects on TiO₂ Nanosheets: Stabilizing Single Atomic Site Au and Promoting Catalytic Properties. Advanced Materials, 2018, 30, 1705369.	24.3	809
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.	13.2	738
11	Matching the kinetics of natural enzymes with a single-atom iron nanozyme. Nature Catalysis, 2021, 4, 407-417.	28.3	636
12	Engineering unsymmetrically coordinated Cu-S1N3 single atom sites with enhanced oxygen reduction activity. Nature Communications, 2020, 11, 3049.	13.2	631
13	Copper atom-pair catalyst anchored on alloy nanowires for selective and efficient electrochemical reduction of CO2. Nature Chemistry, 2019, 11, 222-228.	14.3	629
14	Hollow N-Doped Carbon Spheres with Isolated Cobalt Single Atomic Sites: Superior Electrocatalysts for Oxygen Reduction. Journal of the American Chemical Society, 2017, 139, 17269-17272.	14.6	588
15	Modulating the local coordination environment of single-atom catalysts for enhanced catalytic performance. Nano Research, 2020, 13, 1842-1855.	10.6	574
16	Bismuth Single Atoms Resulting from Transformation of Metalâ€“Organic Frameworks and Their Use as Electrocatalysts for CO₂ Reduction. Journal of the American Chemical Society, 2019, 141, 16569-16573.	14.6	570
17	Fe Isolated Single Atoms on S, N Codoped Carbon by Copolymer Pyrolysis Strategy for Highly Efficient Oxygen Reduction Reaction. Advanced Materials, 2018, 30, e1800588.	24.3	542
18	MXene (Ti₃C₂) Vacancy-Confined Single-Atom Catalyst for Efficient Functionalization of CO₂. Journal of the American Chemical Society, 2019, 141, 4086-4093.	14.6	528

#	Article	IF	Citations
19	Electronic Metalâ€“Support Interaction of Singleâ€Atom Catalysts and Applications in Electrocatalysis. Advanced Materials, 2020, 32, e2003300.	24.3	522
20	Iridium single-atom catalyst on nitrogen-doped carbon for formic acid oxidation synthesized using a general hostâ€“guest strategy. Nature Chemistry, 2020, 12, 764-772.	14.3	508
21	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.	14.8	493
22	A Bimetallic Zn/Fe Polyphthalocyanineâ€Derived Singleâ€Atom Feâ€N₄ Catalytic Site:A Superior Trifunctional Catalyst for Overall Water Splitting and Znâ€“Air Batteries. Angewandte Chemie - International Edition, 2018, 57, 8614-8618.	14.8	487
23	Synthesis and catalytic properties of bimetallic nanomaterials with various architectures. Nano Today, 2012, 7, 448-466.	12.3	479
24	Metal organic frameworks derived single atom catalysts for electrocatalytic energy conversion. Nano Research, 2019, 12, 2067-2080.	10.6	471
25	Defect engineering in earth-abundant electrocatalysts for CO₂ and N₂ reduction. Energy and Environmental Science, 2019, 12, 1730-1750.	32.2	469
26	Single-atom Rh/N-doped carbon electrocatalyst for formic acid oxidation. Nature Nanotechnology, 2020, 15, 390-397.	30.5	461
27	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.	16.5	452
28	Rational Design of Single Molybdenum Atoms Anchored on Nâ€Doped Carbon for Effective Hydrogen Evolution Reaction. Angewandte Chemie - International Edition, 2017, 56, 16086-16090.	14.8	450
29	Single Tungsten Atoms Supported on MOFâ€Derived Nâ€Doped Carbon for Robust Electrochemical Hydrogen Evolution. Advanced Materials, 2018, 30, e1800396.	24.3	444
30	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.	14.6	438
31	Design concept for electrocatalysts. Nano Research, 2022, 15, 1730-1752.	10.6	434
32	Understanding the structure-performance relationship of active sites at atomic scale. Nano Research, 2022, 15, 6888-6923.	10.6	433
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, .	14.8	429
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.	14.6	381
35	Engineering the Atomic Interface with Single Platinum Atoms for Enhanced Photocatalytic Hydrogen Production. Angewandte Chemie - International Edition, 2020, 59, 1295-1301.	14.8	372
36	Regulating the coordination structure of single-atom Fe-NxCy catalytic sites for benzene oxidation. Nature Communications, 2019, 10, 4290.	13.2	357

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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.	32.2	353
38	Shape-Dependent Catalytic Activity of Silver Nanoparticles for the Oxidation of Styrene. Chemistry - an Asian Journal, 2006, 1, 888-893.	3.5	351
39	Rareâ€Earth Single Erbium Atoms for Enhanced Photocatalytic CO₂ Reduction. Angewandte Chemie - International Edition, 2020, 59, 10651-10657.	14.8	344
40	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.	7.6	341
41	Constructing NiCo/Fe₃O₄ Heteroparticles within MOF-74 for Efficient Oxygen Evolution Reactions. Journal of the American Chemical Society, 2018, 140, 15336-15341.	14.6	331
42	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.	14.6	328
43	Isolated Single Iron Atoms Anchored on Nâ€Doped Porous Carbon as an Efficient Electrocatalyst for the Oxygen Reduction Reaction. Angewandte Chemie, 2017, 129, 7041-7045.	2.1	317
44	A Versatile Bottomâ€up Assembly Approach to Colloidal Spheres from Nanocrystals. Angewandte Chemie - International Edition, 2007, 46, 6650-6653.	14.8	313
45	A photochromic composite with enhanced carrier separation for the photocatalytic activation of benzylic Câ€“H bonds in toluene. Nature Catalysis, 2018, 1, 704-710.	28.3	312
46	High-Concentration Single Atomic Pt Sites on Hollow CuSx for Selective O2 Reduction to H2O2 in Acid Solution. CheM, 2019, 5, 2099-2110.	12.2	311
47	Atomic interface effect of a single atom copper catalyst for enhanced oxygen reduction reactions. Energy and Environmental Science, 2019, 12, 3508-3514.	32.2	307
48	An Adjacent Atomic Platinum Site Enables Singleâ€Atom Iron with High Oxygen Reduction Reaction Performance. Angewandte Chemie - International Edition, 2021, 60, 19262-19271.	14.8	303
49	Carbon nitride supported Fe2 cluster catalysts with superior performance for alkene epoxidation. Nature Communications, 2018, 9, 2353.	13.2	297
50	In Situ Phosphatizing of Triphenylphosphine Encapsulated within Metalâ€“Organic Frameworks to Design Atomic Co₁â€“P₁N₃ Interfacial Structure for Promoting Catalytic Performance. Journal of the American Chemical Society, 2020, 142, 8431-8439.	14.6	296
51	Synergistically Interactive Pyridinicâ€Nâ€“MoP Sites: Identified Active Centers for Enhanced Hydrogen Evolution in Alkaline Solution. Angewandte Chemie - International Edition, 2020, 59, 8982-8990.	14.8	293
52	Accelerating water dissociation kinetics by isolating cobalt atoms into ruthenium lattice. Nature Communications, 2018, 9, 4958.	13.2	291
53	Designing Atomic Active Centers for Hydrogen Evolution Electrocatalysts. Angewandte Chemie - International Edition, 2020, 59, 20794-20812.	14.8	288
54	Theory-oriented screening and discovery of advanced energy transformation materials in electrocatalysis. Advanced Powder Materials, 2022, 1, 100013.	16.4	287

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55	Regulations of active moiety in single atom catalysts for electrochemical hydrogen evolution reaction. Nano Research, 2022, 15, 5792-5815.	10.6	284
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.	14.6	282
57	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.	32.2	280
58	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.	14.6	279
59	Three-dimensional open nano-netcage electrocatalysts for efficient pH-universal overall water splitting. Nature Communications, 2019, 10, 4875.	13.2	277
60	A Polymer Encapsulation Strategy to Synthesize Porous Nitrogenâ€Doped Carbonâ€Nanosphereâ€Supported Metal Isolatedâ€Singleâ€Atomicâ€Site Catalysts. Advanced Materials, 2018, 30, e1706508.	24.3	271
61	Cation vacancy stabilization of single-atomic-site Pt1/Ni(OH)x catalyst for diboration of alkynes and alkenes. Nature Communications, 2018, 9, 1002.	13.2	270
62	Design of a Singleâ€Atom Indium^{Î´+}â€“N₄Interface for Efficient Electroreduction of CO₂to Formate. Angewandte Chemie - International Edition, 2020, 59, 22465-22469.	14.8	268
63	Single-atom catalysis enables long-life, high-energy lithium-sulfur batteries. Nano Research, 2020, 13, 1856-1866.	10.6	268
64	Metal (Hydr)oxides@Polymer Coreâ€“Shell Strategy to Metal Single-Atom Materials. Journal of the American Chemical Society, 2017, 139, 10976-10979.	14.6	266
65	Functionalization of Hollow Nanomaterials for Catalytic Applications: Nanoreactor Construction. Advanced Materials, 2019, 31, e1800426.	24.3	265
66	Single-atom site catalysts for environmental catalysis. Nano Research, 2020, 13, 3165-3182.	10.6	265
67	Silver Singleâ€Atom Catalyst for Efficient Electrochemical CO₂ Reduction Synthesized from Thermal Transformation and Surface Reconstruction. Angewandte Chemie - International Edition, 2021, 60, 6170-6176.	14.8	265
68	Engineering Isolated Mnâ€“N₂C₂ Atomic Interface Sites for Efficient Bifunctional Oxygen Reduction and Evolution Reaction. Nano Letters, 2020, 20, 5443-5450.	9.5	261
69	Cobalt single atom site catalysts with ultrahigh metal loading for enhanced aerobic oxidation of ethylbenzene. Nano Research, 2021, 14, 2418-2423.	10.6	261
70	Surface structure effects in nanocrystal MnO2 and Ag/MnO2 catalytic oxidation of CO. Journal of Catalysis, 2006, 237, 426-430.	6.5	248
71	Ag, Ag₂S, and Ag₂Se Nanocrystals:â€‰ Synthesis, Assembly, and Construction of Mesoporous Structures. Journal of the American Chemical Society, 2008, 130, 4016-4022.	14.6	247
72	Superiority of Dualâ€Atom Catalysts in Electrocatalysis: One Step Further Than Singleâ€Atom Catalysts. Advanced Energy Materials, 2022, 12, .	22.2	243

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73	Design of ultrathin Pt-Mo-Ni nanowire catalysts for ethanol electrooxidation. Science Advances, 2017, 3, e1603068.	10.9	238
74	Discovering Partially Charged Single-Atom Pt for Enhanced Anti-Markovnikov Alkene Hydrosilylation. Journal of the American Chemical Society, 2018, 140, 7407-7410.	14.6	232
75	Emerging low-nuclearity supported metal catalysts with atomic level precision for efficient heterogeneous catalysis. Nano Research, 2022, 15, 7806-7839.	10.6	229
76	A Supported Pd₂Dualâ€Atom Site Catalyst for Efficient Electrochemical CO₂Reduction. Angewandte Chemie - International Edition, 2021, 60, 13388-13393.	14.8	228
77	Non-carbon-supported single-atom site catalysts for electrocatalysis. Energy and Environmental Science, 2021, 14, 2809-2858.	32.2	226
78	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.	14.6	222
79	A cocoon silk chemistry strategy to ultrathin N-doped carbon nanosheet with metal single-site catalysts. Nature Communications, 2018, 9, 3861.	13.2	220
80	Controlling N-doping type in carbon to boost single-atom site Cu catalyzed transfer hydrogenation of quinoline. Nano Research, 2020, 13, 3082-3087.	10.6	220
81	Sophisticated Construction of Au Islands on Ptâ€“Ni: An Ideal Trimetallic Nanoframe Catalyst. Journal of the American Chemical Society, 2014, 136, 11594-11597.	14.6	217
82	Phosphorus Induced Electron Localization of Single Iron Sites for Boosted CO₂ Electroreduction Reaction. Angewandte Chemie - International Edition, 2021, 60, 23614-23618.	14.8	217
83	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.	14.6	217
84	Strain Engineering to Enhance the Electrooxidation Performance of Atomic-Layer Pt on Intermetallic Pt₃Ga. Journal of the American Chemical Society, 2018, 140, 2773-2776.	14.6	215
85	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.	14.6	212
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.	14.6	212
87	Reversely trapping atoms from a perovskite surface for high-performance and durable fuel cell cathodes. Nature Catalysis, 2022, 5, 300-310.	28.3	212
88	Single-Crystalline Octahedral Auâ€“Ag Nanoframes. Journal of the American Chemical Society, 2012, 134, 18165-18168.	14.6	209
89	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.	14.6	208
90	Rational Design of Singleâ€Atom Site Electrocatalysts: From Theoretical Understandings to Practical Applications. Advanced Materials, 2021, 33, e2008151.	24.3	208

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91	Regulating the coordination structure of metal single atoms for efficient electrocatalytic CO₂ reduction. Energy and Environmental Science, 2020, 13, 4609-4624.	32.2	207
92	Singleâ€Atom Materials: Small Structures Determine Macroproperties. Small Structures, 2021, 2, 2000051.	13.2	202
93	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.	14.8	202
94	Gramâ€Scale Synthesis of Highâ€Loading Singleâ€Atomicâ€Site Fe Catalysts for Effective Epoxidation of Styrene. Advanced Materials, 2020, 32, e2000896.	24.3	201
95	Synthetic strategies of supported atomic clusters for heterogeneous catalysis. Nature Communications, 2020, 11, 5884.	13.2	200
96	Isolated Single-Atom Niâ€“N₅ Catalytic Site in Hollow Porous Carbon Capsules for Efficient Lithiumâ€“Sulfur Batteries. Nano Letters, 2021, 21, 9691-9698.	9.5	197
97	MOF Encapsulating Nâ€Heterocyclic Carbeneâ€Ligated Copper Singleâ€Atom Site Catalyst towards Efficient Methane Electrosynthesis. Angewandte Chemie - International Edition, 2022, 61, .	14.8	196
98	Ruâ€“Co Pair Sites Catalyst Boosts the Energetics for the Oxygen Evolution Reaction. Angewandte Chemie - International Edition, 2022, 61, .	14.8	196
99	Singleâ€Atom Fe Catalysts for Fentonâ€Like Reactions: Roles of Different N Species. Advanced Materials, 2022, 34, e2110653.	24.3	195
100	Nanocrystalline intermetallics and alloys. Nano Research, 2010, 3, 574-580.	10.6	191
101	Atomic-scale engineering of chemical-vapor-deposition-grown 2D transition metal dichalcogenides for electrocatalysis. Energy and Environmental Science, 2020, 13, 1593-1616.	32.2	191
102	Isolated Ni Atoms Dispersed on Ru Nanosheets: High-Performance Electrocatalysts toward Hydrogen Oxidation Reaction. Nano Letters, 2020, 20, 3442-3448.	9.5	191
103	Engineering of Coordination Environment and Multiscale Structure in Single-Site Copper Catalyst for Superior Electrocatalytic Oxygen Reduction. Nano Letters, 2020, 20, 6206-6214.	9.5	188
104	Platinumâ€“nickel frame within metal-organic framework fabricated in situ for hydrogen enrichment and molecular sieving. Nature Communications, 2015, 6, 8248.	13.2	187
105	Nanocrystals from solutions: catalysts. Chemical Society Reviews, 2014, 43, 2112-2124.	40.3	185
106	Dual-atom Pt heterogeneous catalyst with excellent catalytic performances for the selective hydrogenation and epoxidation. Nature Communications, 2021, 12, 3181.	13.2	185
107	Magnetic Tuning of Upconversion Luminescence in Lanthanideâ€Doped Bifunctional Nanocrystals. Angewandte Chemie - International Edition, 2013, 52, 4366-4369.	14.8	184
108	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.	14.8	181

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109	A high-entropy atomic environment converts inactive to active sites for electrocatalysis. Energy and Environmental Science, 2023, 16, 619-628.	32.2	181
110	Longâ€Range Interactions in Diatomic Catalysts Boosting Electrocatalysis. Angewandte Chemie - International Edition, 2022, 61, .	14.8	180
111	A Strategy for Designing a Concave Ptâ€“Ni Alloy through Controllable Chemical Etching. Angewandte Chemie - International Edition, 2012, 51, 12524-12528.	14.8	177
112	Ordered Porous Nitrogenâ€Doped Carbon Matrix with Atomically Dispersed Cobalt Sites as an Efficient Catalyst for Dehydrogenation and Transfer Hydrogenation of Nâ€Heterocycles. Angewandte Chemie - International Edition, 2018, 57, 11262-11266.	14.8	177
113	P and Cu Dual Sites on Graphitic Carbon Nitride for Photocatalytic CO₂Reduction to Hydrocarbon Fuels with High C₂H₆Evolution. Angewandte Chemie - International Edition, 2022, 61, .	14.8	176
114	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.	20.7	175
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.	2.1	175
116	Nanocrystals: Solution-based synthesis and applications as nanocatalysts. Nano Research, 2009, 2, 30-46.	10.6	173
117	NiO nanorings and their unexpected catalytic property for CO oxidation. Nanotechnology, 2006, 17, 979-983.	2.7	171
118	Highly Active and Selective Catalysis of Bimetallic Rh₃Ni₁ Nanoparticles in the Hydrogenation of Nitroarenes. ACS Catalysis, 2013, 3, 608-612.	11.7	171
119	Mesoporous Nitrogenâ€Doped Carbonâ€Nanosphereâ€Supported Isolated Singleâ€Atom Pd Catalyst for Highly Efficient Semihydrogenation of Acetylene. Advanced Materials, 2019, 31, e1901024.	24.3	167
120	A fundamental comprehension and recent progress in advanced Ptâ€based ORR nanocatalysts. SmartMat, 2021, 2, 56-75.	14.9	162
121	Intermetallic Ni_xM_y (M = Ga and Sn) Nanocrystals: A Nonâ€precious Metal Catalyst for Semiâ€Hydrogenation of Alkynes. Advanced Materials, 2016, 28, 4747-4754.	24.3	156
122	Engineering the Local Atomic Environments of Indium Singleâ€Atom Catalysts for Efficient Electrochemical Production of Hydrogen Peroxide. Angewandte Chemie - International Edition, 2022, 61, .	14.8	156
123	One-step synthesis of single-site vanadium substitution in 1T-WS2 monolayers for enhanced hydrogen evolution catalysis. Nature Communications, 2021, 12, 709.	13.2	155
124	pâ€“d Orbital Hybridization Induced by a Monodispersed Ga Site on a Pt₃Mn Nanocatalyst Boosts Ethanol Electrooxidation. Angewandte Chemie - International Edition, 2022, 61, .	14.8	154
125	Strain Regulation to Optimize the Acidic Water Oxidation Performance of Atomicâ€Layer IrO_x. Advanced Materials, 2019, 31, e1903616.	24.3	148
126	Atomically Dispersed Ptâ€“N₃C₁ Sites Enabling Efficient and Selective Electrocatalytic Câ€“C Bond Cleavage in Lignin Models under Ambient Conditions. Journal of the American Chemical Society, 2021, 143, 9429-9439.	14.6	147

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127	Lewis Acid Site-Promoted Single-Atomic Cu Catalyzes Electrochemical CO₂ Methanation. Nano Letters, 2021, 21, 7325-7331.	9.5	147
128	Highly branched Ptâ€“Ni nanocrystals enclosed by stepped surface for methanol oxidation. Chemical Science, 2012, 3, 1925.	7.8	146
129	Complementary Operando Spectroscopy identification of in-situ generated metastable charge-asymmetry Cu2-CuN3 clusters for CO2 reduction to ethanol. Nature Communications, 2022, 13, 1322.	13.2	146
130	Synergistic Modulation of the Separation of Photoâ€Generated Carriers via Engineering of Dual Atomic Sites for Promoting Photocatalytic Performance. Advanced Materials, 2021, 33, e2105904.	24.3	143
131	Isolating contiguous Pt atoms and forming Pt-Zn intermetallic nanoparticles to regulate selectivity in 4-nitrophenylacetylene hydrogenation. Nature Communications, 2019, 10, 3787.	13.2	141
132	Lattice Strain and Schottky Junction Dual Regulation Boosts Ultrafine Ruthenium Nanoparticles Anchored on a N-Modified Carbon Catalyst for H₂ Production. Journal of the American Chemical Society, 2022, 144, 19619-19626.	14.6	141
133	Room Temperature Activation of Oxygen by Monodispersed Metal Nanoparticles: Oxidative Dehydrogenative Coupling of Anilines for Azobenzene Syntheses. ACS Catalysis, 2013, 3, 478-486.	11.7	139
134	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.	20.7	139
135	Atomically dispersed nonmagnetic electron traps improve oxygen reduction activity of perovskite oxides. Energy and Environmental Science, 2021, 14, 1016-1028.	32.2	139
136	Singleâ€atom catalysis for carbon neutrality. , 2022, 4, 1021-1079.		134
137	Synergistic Feâ^'Se Atom Pairs as Bifunctional Oxygen Electrocatalysts Boost Lowâ€Temperature Rechargeable Znâ€Air Battery. Angewandte Chemie - International Edition, 2023, 62, .	14.8	132
138	One-Pot Pyrolysis to N-Doped Graphene with High-Density Pt Single Atomic Sites as Heterogeneous Catalyst for Alkene Hydrosilylation. ACS Catalysis, 2018, 8, 10004-10011.	11.7	131
139	Adsorption Site Regulation to Guide Atomic Design of Niâ€“Ga Catalysts for Acetylene Semiâ€Hydrogenation. Angewandte Chemie - International Edition, 2020, 59, 11647-11652.	14.8	131
140	Atomically dispersed Niâ€“Ruâ€“P interface sites for high-efficiency pH-universal electrocatalysis of hydrogen evolution. Nano Energy, 2021, 80, 105467.	16.5	131
141	A Site Distance Effect Induced by Reactant Molecule Matchup in Singleâ€Atom Catalysts for Fentonâ€Like Reactions. Angewandte Chemie - International Edition, 2022, 61, .	14.8	131
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.	14.8	129
143	High performance electrocatalyst: Ptâ€“Cu hollow nanocrystals. Chemical Communications, 2011, 47, 8094.	4.2	125
144	Liquid Fluxional Ga Single Atom Catalysts for Efficient Electrochemical CO₂Reduction. Angewandte Chemie - International Edition, 2023, 62, .	14.8	125

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145	General synthesis of Iâ€“IIIâ€“VI2 ternary semiconductor nanocrystals. Chemical Communications, 2008, , 2556.	4.2	124
146	Porphyrin-like Fe-N4 sites with sulfur adjustment on hierarchical porous carbon for different rate-determining steps in oxygen reduction reaction. Nano Research, 2018, 11, 6260-6269.	10.6	124
147	Ultralong Singleâ€Crystalline Ag₂S Nanowires: Promising Candidates for Photoswitches and Roomâ€Temperature Oxygen Sensors. Advanced Materials, 2008, 20, 2628-2632.	24.3	123
148	Hydroformylation of alkenes over rhodium supported on the metal-organic framework ZIF-8. Nano Research, 2014, 7, 1364-1369.	10.6	122
149	Scaleâ€Up Biomass Pathway to Cobalt Singleâ€Site Catalysts Anchored on Nâ€Doped Porous Carbon Nanobelt with Ultrahigh Surface Area. Advanced Functional Materials, 2018, 28, 1802167.	16.5	122
150	A heterogeneous iridium single-atom-site catalyst for highly regioselective carbenoid Oâ€“H bond insertion. Nature Catalysis, 2021, 4, 523-531.	28.3	122
151	Carbon Nitride Photocatalysts with Integrated Oxidation and Reduction Atomic Active Centers for Improved CO₂Conversion. Angewandte Chemie - International Edition, 2022, 61, .	14.8	120
152	Singleâ€Site Au^I Catalyst for Silane Oxidation with Water. Advanced Materials, 2018, 30, 1704720.	24.3	117
153	Atomically dispersed Fe atoms anchored on COF-derived N-doped carbon nanospheres as efficient multi-functional catalysts. Chemical Science, 2020, 11, 786-790.	7.8	115
154	Tuning Mass Transport in Electrocatalysis Down to Subâ€5â€…nm through Nanoscale Grade Separation. Angewandte Chemie - International Edition, 2023, 62, .	14.8	113
155	General preparation for Pt-based alloy nanoporous nanoparticles as potential nanocatalysts. Scientific Reports, 2011, 1, 37.	3.4	112
156	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.	3.9	111
157	Strain Relaxation in Metal Alloy Catalysts Steers the Product Selectivity of Electrocatalytic CO₂ Reduction. ACS Nano, 2022, 16, 3251-3263.	15.3	111
158	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.	4.2	109
159	Monodispersed Pdâ^'Ni Nanoparticles: Composition Control Synthesis and Catalytic Properties in the Miyauraâ^'Suzuki Reaction. Inorganic Chemistry, 2011, 50, 2046-2048.	4.2	108
160	Engineering of Electronic States on Co₃O₄ Ultrathin Nanosheets by Cation Substitution and Anion Vacancies for Oxygen Evolution Reaction. Small, 2020, 16, e2001571.	11.2	106
161	Construction of Pd-Zn dual sites to enhance the performance for ethanol electro-oxidation reaction. Nature Communications, 2021, 12, 5273.	13.2	105
162	Convenient fabrication of BiOBr ultrathin nanosheets with rich oxygen vacancies for photocatalytic selective oxidation of secondary amines. Nano Research, 2019, 12, 1625-1630.	10.6	103

#	Article	IF	Citations
163	Mesoporous Multicomponent Nanocomposite Colloidal Spheres: Ideal Highâ€Temperature Stable Model Catalysts. Angewandte Chemie - International Edition, 2011, 50, 3725-3729.	14.8	102
164	Single-atom Fe with Fe1N3 structure showing superior performances for both hydrogenation and transfer hydrogenation of nitrobenzene. Science China Materials, 2021, 64, 642-650.	6.5	102
165	Kinetically Controlling Surface Structure to Construct Defectâ€Rich Intermetallic Nanocrystals: Effective and Stable Catalysts. Advanced Materials, 2016, 28, 2540-2546.	24.3	100
166	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.	14.8	100
167	Single atom alloy: An emerging atomic site material for catalytic applications. Nano Today, 2020, 34, 100917.	12.3	100
168	Creating High Regioselectivity by Electronic Metalâ€“Support Interaction of a Single-Atomic-Site Catalyst. Journal of the American Chemical Society, 2021, 143, 15453-15461.	14.6	100
169	Microenvironment Engineering of Single/Dualâ€Atom Catalysts for Electrocatalytic Application. Advanced Materials, 2023, 35, .	24.3	100
170	Defect-Dominated Shape Recovery of Nanocrystals: A New Strategy for Trimetallic Catalysts. Journal of the American Chemical Society, 2013, 135, 12220-12223.	14.6	97
171	Ptâ€“Ni nanodendrites with high hydrogenation activity. Chemical Communications, 2013, 49, 2903.	4.2	97
172	Revealing the Active Species for Aerobic Alcohol Oxidation by Using Uniform Supported Palladium Catalysts. Angewandte Chemie - International Edition, 2018, 57, 4642-4646.	14.8	97
173	Engineering Water Molecules Activation Center on Multisite Electrocatalysts for Enhanced CO₂ Methanation. Journal of the American Chemical Society, 2022, 144, 12807-12815.	14.6	97
174	Regulating the Catalytic Performance of Single-Atomic-Site Ir Catalyst for Biomass Conversion by Metalâ€“Support Interactions. ACS Catalysis, 2019, 9, 5223-5230.	11.7	94
175	Tunable Selectivity for Electrochemical CO₂ Reduction by Bimetallic Cuâ€“Sn Catalysts: Elucidating the Roles of Cu and Sn. ACS Catalysis, 2021, 11, 11103-11108.	11.7	93
176	Mnï£¿N₄ Oxygen Reduction Electrocatalyst: Operando Investigation of Active Sites and High Performance in Zincâ€“Air Battery. Advanced Energy Materials, 2021, 11, 2002753.	22.2	93
177	Single-Atom Yttrium Engineering Janus Electrode for Rechargeable Naâ€“S Batteries. Journal of the American Chemical Society, 2022, 144, 18995-19007.	14.6	92
178	Understanding of the major reactions in solution synthesis of functional nanomaterials. Science China Materials, 2016, 59, 938-996.	6.5	90
179	How to select effective electrocatalysts: Nano or single atom?. Nano Select, 2021, 2, 492-511.	3.8	90
180	Striding the threshold of an atom era of organic synthesis by single-atom catalysis. CheM, 2022, 8, 119-140.	12.2	90

#	Article	IF	Citations
181	Tuning Polarity of Cu-O Bond in Heterogeneous Cu Catalyst to Promote Additive-free Hydroboration of Alkynes. CheM, 2020, 6, 725-737.	12.2	89
182	Carbon nanotube-encapsulated cobalt for oxygen reduction: integration of space confinement and N-doping. Chemical Communications, 2019, 55, 14801-14804.	4.2	88
183	Single-Atom Au^Iâ€“N₃ Site for Acetylene Hydrochlorination Reaction. ACS Catalysis, 2020, 10, 1865-1870.	11.7	88
184	Atomically Dispersed Au-Assisted Câ€“C Coupling on Red Phosphorus for CO₂ Photoreduction to C₂H₆. Journal of the American Chemical Society, 2022, 144, 22075-22082.	14.6	86
185	Construction of Co₄ Atomic Clusters to Enable Feâ^'N₄ Motifs with Highly Active and Durable Oxygen Reduction Performance. Angewandte Chemie - International Edition, 2023, 62, .	14.8	86
186	Rational Design of Single Molybdenum Atoms Anchored on Nâ€Doped Carbon for Effective Hydrogen Evolution Reaction. Angewandte Chemie, 2017, 129, 16302-16306.	2.1	85
187	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.	15.3	85
188	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, .	14.8	84
189	Electronically Engineering Water Resistance in Methane Combustion with an Atomically Dispersed Tungsten on PdO Catalyst. Angewandte Chemie - International Edition, 2022, 61, .	14.8	84
190	Isolated Iron Single-Atomic Site-Catalyzed Chemoselective Transfer Hydrogenation of Nitroarenes to Arylamines. ACS Applied Materials & Interfaces, 2019, 11, 33819-33824.	8.3	83
191	Fabricating polyoxometalates-stabilized single-atom site catalysts in confined space with enhanced activity for alkynes diboration. Nature Communications, 2021, 12, 4205.	13.2	83
192	Ag/CeO2 nanospheres: Efficient catalysts for formaldehyde oxidation. Applied Catalysis B: Environmental, 2014, 148-149, 36-43.	20.7	82
193	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.	14.6	82
194	Engineering a Copper Singleâ€Atom Electron Bridge to Achieve Efficient Photocatalytic CO₂ Conversion. Angewandte Chemie - International Edition, 2023, 62, .	14.8	82
195	Pd single-atom monolithic catalyst: Functional 3D structure and unique chemical selectivity in hydrogenation reaction. Science China Materials, 2021, 64, 1919-1929.	6.5	79
196	Bi2S3 nanotubes: Facile synthesis and growth mechanism. Nano Research, 2009, 2, 130-134.	10.6	77
197	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.	8.3	77
198	Interface Engineering of Partially Phosphidated Co@Coâ€“P@NPCNTs for Highly Enhanced Electrochemical Overall Water Splitting. Small, 2020, 16, e2002124.	11.2	77

#	Article	IF	Citations
199	Shape control of CoO and LiCoO2 nanocrystals. Nano Research, 2010, 3, 1-7.	10.6	76
200	Pdâ€Cu₂O and Agâ€Cu₂O Hybrid Concave Nanomaterials for an Effective Synergistic Catalyst. Angewandte Chemie - International Edition, 2013, 52, 11049-11053.	14.8	76
201	Coordination structure dominated performance of single-atomic Pt catalyst for anti-Markovnikov hydroboration of alkenes. Science China Materials, 2020, 63, 972-981.	6.5	76
202	Pdâ€Cu₂O and Agâ€Cu₂O Hybrid Concave Nanomaterials for an Effective Synergistic Catalyst. Angewandte Chemie, 2013, 125, 11255-11259.	2.1	75
203	Irâ€“Cu nanoframes: one-pot synthesis and efficient electrocatalysts for oxygen evolution reaction. Chemical Communications, 2016, 52, 3793-3796.	4.2	75
204	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.	3.9	74
205	Recent advances of single-atom catalysts in CO₂conversion. Energy and Environmental Science, 2023, 16, 2759-2803.	32.2	73
206	Porous organic cage stabilised palladium nanoparticles: efficient heterogeneous catalysts for carbonylation reaction of aryl halides. Chemical Communications, 2018, 54, 2796-2799.	4.2	72
207	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.	11.7	72
208	Carbonâ€Supported Singleâ€Atom Catalysts for Formic Acid Oxidation and Oxygen Reduction Reactions. Small, 2021, 17, e2004500.	11.2	71
209	Ultrathin Auâ€“Ag bimetallic nanowires with Coulomb blockade effects. Chemical Communications, 2011, 47, 5160.	4.2	69
210	One-Pot Protocol for Bimetallic Pt/Cu Hexapod Concave Nanocrystals with Enhanced Electrocatalytic Activity. Scientific Reports, 2013, 3, 1404.	3.4	69
211	Bimetallic Pdâ€“Cu nanocrystals and their tunable catalytic properties. Chemical Communications, 2014, 50, 4588.	4.2	69
212	Fabricating Pd isolated single atom sites on C3N4/rGO for heterogenization of homogeneous catalysis. Nano Research, 2020, 13, 947-951.	10.6	69
213	The atomic-level regulation of single-atom site catalysts for the electrochemical CO₂ reduction reaction. Chemical Science, 2021, 12, 4201-4215.	7.8	68
214	Downstream Processing Strategies for Ligninâ€First Biorefinery. ChemSusChem, 2020, 13, 5199-5212.	7.5	67
215	Atomicâ€Level Regulation of Cobalt Singleâ€Atom Nanozymes: Engineering Highâ€Efficiency Catalase Mimics. Angewandte Chemie - International Edition, 2023, 62, .	14.8	67
216	CO2-mediated organocatalytic chlorine evolution under industrial conditions. Nature, 2023, 617, 519-523.	36.2	67

#	Article	IF	Citations
217	Heterogeneous catalysis for green chemistry based on nanocrystals. National Science Review, 2015, 2, 150-166.	9.5	66
218	Effective Octadecylamine System for Nanocrystal Synthesis. Inorganic Chemistry, 2011, 50, 5196-5202.	4.2	65
219	PdAg bimetallic electrocatalyst for highly selective reduction of CO2 with low COOH* formation energy and facile CO desorption. Nano Research, 2019, 12, 2866-2871.	10.6	65
220	Engineering the Atomic Interface with Single Platinum Atoms for Enhanced Photocatalytic Hydrogen Production. Angewandte Chemie, 2020, 132, 1311-1317.	2.1	65
221	Promoting electrocatalytic methanol oxidation of platinum nanoparticles by cerium modification. Nano Energy, 2020, 73, 104784.	16.5	65
222	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.	10.6	64
223	Ptâ€“M (M = Cu, Fe, Zn, etc.) bimetallic nanomaterials with abundant surface defects and robust catalytic properties. Chemical Communications, 2016, 52, 5985-5988.	4.2	63
224	Anion-exchange-mediated internal electric field for boosting photogenerated carrier separation and utilization. Nature Communications, 2021, 12, 4952.	13.2	63
225	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.	10.6	60
226	Hydrothermal synthesis of orthorhombic LiMnO2 nano-particles and LiMnO2 nanorods and comparison of their electrochemical performances. Nano Research, 2009, 2, 923-930.	10.6	59
227	Heterogeneous Single Atom Environmental Catalysis: Fundamentals, Applications, and Opportunities. Advanced Functional Materials, 2022, 32, 2108381.	16.5	59
228	Atomic Replacement of PtNi Nanoalloys within Zn-ZIF-8 for the Fabrication of a Multisite CO₂ Reduction Electrocatalyst. Journal of the American Chemical Society, 2022, 144, 23223-23229.	14.6	59
229	Single-atom electrocatalysis: a new approach to in vivo electrochemical biosensing. Science China Chemistry, 2019, 62, 1720-1724.	8.8	58
230	Single atomic site catalysts: synthesis, characterization, and applications. Chemical Communications, 2020, 56, 7687-7697.	4.2	58
231	A Singleâ€Atom Cobalt Catalyst for the Fluorination of Acyl Chlorides at Partsâ€perâ€Million Catalyst Loading. Angewandte Chemie - International Edition, 2022, 61, .	14.8	57
232	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.	10.6	56
233	Construction of Dualâ€Activeâ€Site Copper Catalyst Containing both Cuï£¿N₃ and Cuï£¿N₄ Sites. Small, 2021, 17, e2006834.	11.2	55
234	Ru₁Co_n Single-Atom Alloy for Enhancing Fischerâ€“Tropsch Synthesis. ACS Catalysis, 2021, 11, 1886-1896.	11.7	55

#	Article	IF	Citations
235	Ultrathin Ptâ€“Zn Nanowires: High-Performance Catalysts for Electrooxidation of Methanol and Formic Acid. ACS Sustainable Chemistry and Engineering, 2018, 6, 77-81.	6.9	54
236	Surface Hexagonal Pt₁Sn₁ Intermetallic on Pt Nanoparticles for Selective Propane Dehydrogenation. ACS Applied Materials & Interfaces, 2020, 12, 25903-25909.	8.3	54
237	Recent Progress in Thermal Conversion of CO₂ via Singleâ€Atom Site Catalysis. Small Structures, 2022, 3, .	13.2	54
238	Directly Assembling Ligand-Free ZnO Nanocrystals into Three-Dimensional Mesoporous Structures by Oriented Attachment. Inorganic Chemistry, 2011, 50, 5841-5847.	4.2	53
239	Synergistically Interactive Pyridinicâ€Nâ€“MoP Sites: Identified Active Centers for Enhanced Hydrogen Evolution in Alkaline Solution. Angewandte Chemie, 2020, 132, 9067-9075.	2.1	53
240	Lowâ€dimensional material supported singleâ€atom catalysts for electrochemical CO₂ reduction. SmartMat, 2022, 3, 84-110.	14.9	53
241	A Versatile Bottomâ€up Assembly Approach to Colloidal Spheres from Nanocrystals. Angewandte Chemie, 2007, 119, 6770-6773.	2.1	52
242	Copper Nanocrystal Plane Effect on Stereoselectivity of Catalytic Deoxygenation of Aromatic Epoxides. Journal of the American Chemical Society, 2015, 137, 3791-3794.	14.6	51
243	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.	2.1	51
244	Phase-transfer interface promoted corrosion from PtNi10 nanoctahedra to Pt4Ni nanoframes. Nano Research, 2015, 8, 140-155.	10.6	50
245	Porous bimetallic Pt-Fe nanocatalysts for highly efficient hydrogenation of acetone. Nano Research, 2015, 8, 2706-2713.	10.6	50
246	Heterogeneous selective hydrogenation of ethylene carbonate to methanol and ethylene glycol over a copper chromite nanocatalyst. Chemical Communications, 2015, 51, 1252-1254.	4.2	50
247	Free-standing palladium-nickel alloy wavy nanosheets. Nano Research, 2016, 9, 2244-2250.	10.6	50
248	ZIF-derived porous carbon supported Pd nanoparticles within mesoporous silica shells: sintering- and leaching-resistant coreâ€“shell nanocatalysts. Chemical Communications, 2017, 53, 9490-9493.	4.2	50
249	Highly efficient CeO2-supported noble-metal catalysts: From single atoms to nanoclusters. Chem Catalysis, 2022, 2, 1594-1623.	6.4	50
250	Rareâ€Earth Single Erbium Atoms for Enhanced Photocatalytic CO₂ Reduction. Angewandte Chemie, 2020, 132, 10738-10744.	2.1	49
251	Co⁰â^'Co^{Î´+} Interface Doubleâ€Siteâ€Mediated Câ^'C Coupling for the Photothermal Conversion of CO₂ into Light Olefins. Angewandte Chemie - International Edition, 2023, 62, .	14.8	49
252	Controllable synthesis of Cu-based nanocrystals in ODA solvent. Chemical Communications, 2011, 47, 3604.	4.2	48

#	Article	IF	Citations
253	Smallâ€Scale Big Science: From Nanoâ€•to Atomically Dispersed Catalytic Materials. Small Science, 2022, 2, .	10.6	48
254	Modulating the photoelectrons of g-C3N4 via coupling MgTi2O5 as appropriate platform for visible-light-driven photocatalytic solar energy conversion. Nano Research, 2019, 12, 1931-1936.	10.6	46
255	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.	14.6	46
256	Coupling Cu Single Atoms and Phase Junction for Photocatalytic CO₂ Reduction with 100% CO Selectivity. ACS Catalysis, 2022, 12, 14096-14105.	11.7	46
257	Challenges and opportunities for manganese oxides in low-temperature selective catalytic reduction of NOx with NH3: H2O resistance ability. Journal of Solid State Chemistry, 2020, 289, 121464.	3.0	45
258	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.	2.1	45
259	Pt Atomic Layers with Tensile Strain and Rich Defects Boost Ethanol Electrooxidation. Nano Letters, 2022, 22, 7563-7571.	9.5	45
260	Enabling heterogeneous catalysis to achieve carbon neutrality: Directional catalytic conversion of CO₂ into carboxylic acids. , 2024, 6, .		45
261	Preparation and electrochemical characterization of ultrathin WO3â^'x /C nanosheets as anode materials in lithium ion batteries. Nano Research, 2017, 10, 1903-1911.	10.6	44
262	Cooperative Ni(Co)â€Ruâ€P Sites Activate Dehydrogenation for Hydrazine Oxidation Assisting Selfâ€powered H₂ Production. Angewandte Chemie - International Edition, 2023, 62, .	14.8	44
263	Two-dimensional SnO2/graphene heterostructures for highly reversible electrochemical lithium storage. Science China Materials, 2018, 61, 1527-1535.	6.5	42
264	2D materials modulating layered double hydroxides for electrocatalytic water splitting. Chinese Journal of Catalysis, 2022, 43, 1380-1398.	14.6	42
265	Engineering the Structural Uniformity of Gel Polymer Electrolytes via Patternâ€Guided Alignment for Durable, Safe Solidâ€State Lithium Metal Batteries. Advanced Materials, 2023, 35, .	24.3	42
266	Rhodiumâ€“nickel bimetallic nanocatalysts: high performance of room-temperature hydrogenation. Chemical Communications, 2013, 49, 303-305.	4.2	41
267	Semiconductorâ€“noble metal hybrid nanomaterials with controlled structures. Journal of Materials Chemistry A, 2013, 1, 1587-1590.	10.5	41
268	Bi/Zn Dual Singleâ€Atom Catalysts for Electroreduction of CO₂ to Syngas. ChemCatChem, 2022, 14, .	3.8	41
269	Hydrogen Radical-Induced Electrocatalytic N₂ Reduction at a Low Potential. Journal of the American Chemical Society, 2023, 145, 10259-10267.	14.6	41
270	A Strategy for Designing a Concave Ptâ€“Ni Alloy through Controllable Chemical Etching. Angewandte Chemie, 2012, 124, 12692-12696.	2.1	40

#	Article	IF	Citations
271	Progress in organic reactions catalyzed by bimetallic nanomaterials. Chinese Journal of Catalysis, 2013, 34, 1964-1974.	14.6	40
272	Single-atom site catalysts supported on two-dimensional materials for energy applications. Chinese Chemical Letters, 2021, 32, 3771-3781.	9.1	40
273	Atom-level interfacial synergy of single-atom site catalysts for electrocatalysis. Journal of Energy Chemistry, 2022, 65, 103-115.	13.4	40
274	Template-Free Synthesis and Characterization of Single-Phase Voided Poly(o-anisidine) and Polyaniline Colloidal Spheres. Chemistry of Materials, 2007, 19, 5773-5778.	7.1	39
275	Metal-organic frameworks-derived nitrogen-doped carbon supported nanostructured PtNi catalyst for enhanced hydrosilylation of 1-octene. Nano Research, 2019, 12, 2584-2588.	10.6	39
276	Notched-Polyoxometalate Strategy to Fabricate Atomically Dispersed Ru Catalysts for Biomass Conversion. ACS Catalysis, 2021, 11, 2669-2675.	11.7	38
277	Tandem catalyzing the hydrodeoxygenation of 5-hydroxymethylfurfural over a Ni₃Fe intermetallic supported Pt single-atom site catalyst. Chemical Science, 2021, 12, 4139-4146.	7.8	38
278	Competitive Trapping of Single Atoms onto a Metal Carbide Surface. ACS Nano, 2023, 17, 6955-6965.	15.3	38
279	Nanoscale Metal Particle Modified Singleâ€Atom Catalyst: Synthesis, Characterization, and Application. Advanced Materials, 2024, 36, .	24.3	38
280	Pd-dispersed CuS hetero-nanoplates for selective hydrogenation of phenylacetylene. Nano Research, 2016, 9, 1209-1219.	10.6	37
281	Kinked gold nanowires and their SPR/SERS properties. Chemical Communications, 2011, 47, 9909.	4.2	36
282	Atomic Thickness Catalysts: Synthesis and Applications. Small Methods, 2020, 4, 2000248.	9.6	36
283	Facet engineering in metal organic frameworks to improve their electrochemical activity for water oxidation. Chemical Communications, 2020, 56, 4316-4319.	4.2	36
284	Polystyrene Waste Thermochemical Hydrogenation to Ethylbenzene by a N-Bridged Co, Ni Dual-Atom Catalyst. Journal of the American Chemical Society, 2023, 145, 16218-16227.	14.6	36
285	Pd and Au@Pd nanodendrites: a one-pot synthesis and their superior catalytic properties. Chemical Communications, 2014, 50, 6141.	4.2	35
286	Energy Upconversion in Lanthanide-Doped Core/Porous-Shell Nanoparticles. Inorganic Chemistry, 2014, 53, 3257-3259.	4.2	35
287	Ultra-thin Cu₂S nanosheets: effective cocatalysts for photocatalytic hydrogen production. Chemical Communications, 2015, 51, 13305-13308.	4.2	35
288	Structure regulation of noble-metal-based nanomaterials at an atomic level. Nano Today, 2019, 26, 164-175.	12.3	35

#	Article	IF	Citations
289	A Supported Pd₂Dualâ€Atom Site Catalyst for Efficient Electrochemical CO₂Reduction. Angewandte Chemie, 2021, 133, 13500-13505.	2.1	35
290	Rare-earth single atom based luminescent composite nanomaterials: Tunable full-color single phosphor and applications in WLEDs. Nano Research, 2022, 15, 3594-3605.	10.6	35
291	Engineering the Local Atomic Environments of Indium Singleâ€Atom Catalysts for Efficient Electrochemical Production of Hydrogen Peroxide. Angewandte Chemie, 2022, 134, .	2.1	34
292	Negatively Charged Single-Atom Pt Catalyst Shows Superior SO₂ Tolerance in NO_x Reduction by CO. ACS Catalysis, 2023, 13, 224-236.	11.7	34
293	Selective CO₂ Reduction to Ethylene Mediated by Adaptive Smallâ€molecule Engineering of Copperâ€based Electrocatalysts. Angewandte Chemie - International Edition, 2023, 62, .	14.8	34
294	Ultrathin CuO nanorods: controllable synthesis and superior catalytic properties in styrene epoxidation. Chemical Communications, 2015, 51, 8817-8820.	4.2	33
295	Single-atomic-site cobalt stabilized on nitrogen and phosphorus co-doped carbon for selective oxidation of primary alcohols. Nanoscale Horizons, 2019, 4, 902-906.	7.7	33
296	Adsorption Site Regulation to Guide Atomic Design of Niâ€“Ga Catalysts for Acetylene Semiâ€Hydrogenation. Angewandte Chemie, 2020, 132, 11744-11749.	2.1	32
297	An Adjacent Atomic Platinum Site Enables Singleâ€Atom Iron with High Oxygen Reduction Reaction Performance. Angewandte Chemie, 2021, 133, 19411-19420.	2.1	32
298	Synthetic strategies for MOF-based single-atom catalysts for photo- and electro-catalytic CO2 reduction. IScience, 2022, 25, 104177.	4.1	32
299	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.	10.6	31
300	Tailoring the Electronic Structure of Single Ag Atoms in Ag/WO₃ for Efficient NO Reduction by CO in the Presence of O₂. ACS Catalysis, 2023, 13, 1230-1239.	11.7	31
301	Atomically Strained Metal Sites for Highly Efficient and Selective Photooxidation. Nano Letters, 2023, 23, 2905-2914.	9.5	31
302	Mixed Plastics Wastes Upcycling with High-Stability Single-Atom Ru Catalyst. Journal of the American Chemical Society, 2023, 145, 22836-22844.	14.6	31
303	Why do Singleâ€Atom Alloys Catalysts Outperform both Singleâ€Atom Catalysts and Nanocatalysts on MXene?. Angewandte Chemie - International Edition, 2024, 63, .	14.8	31
304	Revealing the Active Species for Aerobic Alcohol Oxidation by Using Uniform Supported Palladium Catalysts. Angewandte Chemie, 2018, 130, 4732-4736.	2.1	30
305	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.	2.1	30
306	Design of a Singleâ€Atom Indium^{Î´+}â€“N₄Interface for Efficient Electroreduction of CO₂to Formate. Angewandte Chemie, 2020, 132, 22651-22655.	2.1	30

#	Article	IF	Citations
307	Electronic structure regulations of single-atom site catalysts and their effects on the electrocatalytic performances. Applied Physics Reviews, 2021, 8, .	11.7	30
308	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.	20.7	30
309	Singleâ€atom materials: The application in energy conversion. Interdisciplinary Materials, 2024, 3, 74-86.	18.7	30
310	Magnetic Tuning of Upconversion Luminescence in Lanthanideâ€Doped Bifunctional Nanocrystals. Angewandte Chemie, 2013, 125, 4462-4465.	2.1	29
311	A Site Distance Effect Induced by Reactant Molecule Matchup in Singleâ€Atom Catalysts for Fentonâ€Like Reactions. Angewandte Chemie, 2022, 134, .	2.1	29
312	Singleâ€Atom Catalysts with Ultrahigh Catalaseâ€Like Activity Through Electron Filling and Orbital Energy Regulation. Advanced Functional Materials, 2023, 33, .	16.5	29
313	Efficient multicarbon formation in acidic CO2 reduction via tandem electrocatalysis. Nature Nanotechnology, 2024, 19, 311-318.	30.5	29
314	Electronics and coordination engineering of atomic cobalt trapped by oxygen-driven defects for efficient cathode in solar cells. Nano Energy, 2021, 89, 106365.	16.5	28
315	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, .	2.1	28
316	Constructing radially oriented macroporous spheres with central cavities as ultrastable lithium-ion battery anodes. Energy Storage Materials, 2019, 17, 242-252.	18.4	27
317	Boosting Electrochemical Styrene Transformation via Tandem Water Oxidation over a Singleâ€Atom Cr₁/CoSe₂ Catalyst. Advanced Materials, 2022, 34, e2200302.	24.3	27
318	Charge-Separated Pd^{Î´â^'}â€“Cu^{Î´+} Atom Pairs Promote CO₂ Reduction to C₂. Nano Letters, 2023, 23, 2312-2320.	9.5	27
319	Synergy of Single Atoms and Lewis Acid Sites for Efficient and Selective Lignin Disassembly into Monolignol Derivatives. Journal of the American Chemical Society, 2023, 145, 12884-12893.	14.6	27
320	Seed-mediated synthesis of hexameric octahedral PtPdCu nanocrystals with high electrocatalytic performance. Chemical Communications, 2015, 51, 15406-15409.	4.2	25
321	Engineering Dual Singleâ€Atom Sites on 2D Ultrathin Nâ€doped Carbon Nanosheets Attaining Ultraâ€Lowâ€Temperature Zincâ€Air Battery. Angewandte Chemie, 2022, 134, .	2.1	25
322	Berechnung der Dauerschwingfestigkeit unter BerÃ¼cksichtigung der spannungsmechanischen und statistischen StÃ¼tzziffer. Materialwissenschaft Und Werkstofftechnik, 1991, 22, 187-196.	1.1	24
323	Nano PdAu Bimetallic Alloy as an Effective Catalyst for the Buchwaldâ€“Hartwig Reaction. Chemistry - an Asian Journal, 2016, 11, 351-355.	3.5	24
324	Platinumâ€“Copper Nanoframes: Oneâ€Pot Synthesis and Enhanced Electrocatalytic Activity. Chemistry - A European Journal, 2016, 22, 4960-4965.	3.9	24

#	Article	IF	Citations
325	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.	2.1	24
326	Silver Singleâ€Atom Catalyst for Efficient Electrochemical CO₂ Reduction Synthesized from Thermal Transformation and Surface Reconstruction. Angewandte Chemie, 2021, 133, 6235-6241.	2.1	24
327	Phosphorus Induced Electron Localization of Single Iron Sites for Boosted CO₂ Electroreduction Reaction. Angewandte Chemie, 2021, 133, 23806-23810.	2.1	24
328	Nanoscale high-entropy alloy for electrocatalysis. Matter, 2023, 6, 1717-1751.	10.2	24
329	Design and structural engineering of single-atomic-site catalysts for acidic oxygen reduction reaction. Trends in Chemistry, 2021, 3, 954-968.	9.0	23
330	Longâ€Range Interactions in Diatomic Catalysts Boosting Electrocatalysis. Angewandte Chemie, 2022, 134, .	2.1	23
331	Atomic Distance Engineering in Metal Catalysts to Regulate Catalytic Performance. Advanced Materials, 2024, 36, .	24.3	23
332	Symmetryâ€Broken Ru Nanoparticles with Parasitic Ruâ€Co Dualâ€Single Atoms Overcome the Volmer Step of Alkaline Hydrogen Oxidation. Angewandte Chemie - International Edition, 2024, 63, .	14.8	23
333	Synthesis of Luminescent Cubic Phase One-Dimensional CuI Nanostructures in Solution. Crystal Growth and Design, 2010, 10, 3387-3390.	3.2	22
334	Decreasing the coordinated N atoms in a single-atom Cu catalyst to achieve selective transfer hydrogenation of alkynes. Chemical Science, 2021, 12, 14599-14605.	7.8	22
335	MOF Encapsulating Nâ€Heterocyclic Carbeneâ€Ligated Copper Singleâ€Atom Site Catalyst towards Efficient Methane Electrosynthesis. Angewandte Chemie, 2022, 134, e202114450.	2.1	22
336	pâ€“d Orbital Hybridization Induced by a Monodispersed Ga Site on a Pt₃Mn Nanocatalyst Boosts Ethanol Electrooxidation. Angewandte Chemie, 2022, 134, .	2.1	22
337	Platinumâ€“Ruthenium Single Atom Alloy as a Bifunctional Electrocatalyst toward Methanol and Hydrogen Oxidation Reactions. ACS Applied Materials & Interfaces, 2022, 14, 27814-27822.	8.3	22
338	The synthetic strategies for single atomic site catalysts based on metalâ€“organic frameworks. Nanoscale, 2020, 12, 20580-20589.	5.8	21
339	Oriented Conversion of a LA/HMF Mixture to GVL and FDCA in a Biphasic Solvent over a Ru Single-Atom/Nanoparticle Dual-Site Catalyst. ACS Catalysis, 2023, 13, 2268-2276.	11.7	21
340	MOF-Derived Ru₁Zr₁/Co Dual-Atomic-Site Catalyst with Promoted Performance for Fischerâ€“Tropsch Synthesis. Journal of the American Chemical Society, 2023, 145, 7113-7122.	14.6	21
341	Optimizing electronic synergy of atomically dispersed dual-metal Niâ€“N₄ and Feâ€“N₄ sites with adjacent Fe nanoclusters for high-efficiency oxygen electrocatalysis. Energy and Environmental Science, 2024, 17, 704-716.	32.2	21
342	Singleâ€Atom Manganeseâ€Catalyzed Oxygen Evolution Drives the Electrochemical Oxidation of Silane to Silanol. Angewandte Chemie - International Edition, 2024, 63, .	14.8	21

#	Article	IF	Citations
343	Palladium/tin bimetallic single-crystalline hollow nanospheres. Chemical Communications, 2012, 48, 1683-1685.	4.2	20
344	Facile synthesis of Ag-doped ZnCdS nanocrystals and transformation into Ag-doped ZnCdSSe nanocrystals with Se treatment. RSC Advances, 2015, 5, 1083-1090.	3.7	20
345	Facile synthesis of CoNi_x nanoparticles embedded in nitrogenâ€“carbon frameworks for highly efficient electrocatalytic oxygen evolution. Chemical Communications, 2017, 53, 12177-12180.	4.2	20
346	MOF derived high-density atomic platinum heterogeneous catalyst for Câ€“H bond activation. Materials Chemistry Frontiers, 2020, 4, 1158-1163.	5.9	20
347	Transforming cobalt hydroxide nanowires into single atom site catalysts. Nano Energy, 2021, 83, 105799.	16.5	20
348	Carbon Nitride Photocatalysts with Integrated Oxidation and Reduction Atomic Active Centers for Improved CO₂Conversion. Angewandte Chemie, 2022, 134, .	2.1	20
349	Construction of Co₄ Atomic Clusters to Enable Feâ€“N₄ Motifs with Highly Active and Durable Oxygen Reduction Performance. Angewandte Chemie, 2023, 135, .	2.1	20
350	Constructing Symmetry-Mismatched Ru_xFe_{3â€“x}O₄ Heterointerface-Supported Ru Clusters for Efficient Hydrogen Evolution and Oxidation Reactions. Nano Letters, 2024, 24, 1015-1023.	9.5	20
351	Systematic Synthesis of ZnO Nanostructures. Chemistry - A European Journal, 2013, 19, 3735-3740.	3.9	19
352	Au/CuSiO3 nanotubes: High-performance robust catalysts for selective oxidation of ethanol to acetaldehyde. Nano Research, 2016, 9, 2681-2686.	10.6	19
353	Bimetallic PdCo catalyst for selective direct formylation of amines by carbon monoxide. Nano Research, 2017, 10, 890-896.	10.6	19
354	è¶…ç»†PtCuç³±ç²¿çš„è¡¨é¢ç»“æž„å…¶å…‰å¢žå¼ºçš„é†‡æ°§åŒ–æ°§åŒ–ä½œç”¨. Science China Materials, 2021, 64,	6.8	19
355	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.	10.6	19
356	Recent advances of single-atom alloy catalyst: Properties, synthetic methods and electrocatalytic applications. Materials Today Catalysis, 2023, 2, 100009.	0.0	19
357	Fabrication of 1D nickel sulfide nanocrystals with high capacitances and remarkable durability. RSC Advances, 2014, 4, 47513-47516.	3.7	18
358	A general bottom-up synthesis of CuO-based trimetallic oxide mesocrystal superstructures for efficient catalytic production of trichlorosilane. Nano Research, 2020, 13, 2819-2827.	10.6	18
359	Design aktiver atomarer Zentren fÃ¼r HERâ€Elektrokatalysatoren. Angewandte Chemie, 2020, 132, 20978-20998.	2.1	18
360	Single-atom catalysts: stimulating electrochemical CO₂ reduction reaction in the industrial era. Journal of Materials Chemistry A, 2022, 10, 5863-5877.	10.5	18

#	Article	IF	Citations
361	A General Dual-Metal Nanocrystal Dissociation Strategy to Generate Robust High-Temperature-Stable Alumina-Supported Single-Atom Catalysts. Journal of the American Chemical Society, 2023, 145, 15869-15878.	14.6	18
362	Mesoporous Multicomponent Nanocomposite Colloidal Spheres: Ideal Highâ€Temperature Stable Model Catalysts. Angewandte Chemie, 2011, 123, 3809-3813.	2.1	17
363	Vanadium defect-engineering in molybdenum disulfide for electrochemical nitrate reduction. Journal of Materials Chemistry A, 2022, 10, 23990-23997.	10.5	17
364	Symmetry-Breaking p-Block Antimony Single Atoms Trigger N-Bridged Titanium Sites for Electrocatalytic Nitrogen Reduction with High Efficiency. ACS Nano, 2023, 17, 21838-21849.	15.3	17
365	Enhanced Visibleâ€Light Photoactivities of Perovskiteâ€Type LaFeO₃ Nanocrystals by Simultaneously Doping Er³⁺ and Coupling MgO for CO₂ Reduction. ChemCatChem, 2020, 12, 623-630.	3.8	16
366	Liquid Fluxional Ga Single Atom Catalysts for Efficient Electrochemical CO₂Reduction. Angewandte Chemie, 2023, 135, .	2.1	16
367	Advances and challenges in single-site catalysts towards electrochemical CO₂ methanation. Energy and Environmental Science, 2023, 16, 4812-4833.	32.2	16
368	Stabilizing ruthenium dioxide with cation-anchored sulfate for durable oxygen evolution in proton-exchange membrane water electrolyzers. Nature Communications, 2023, 14, .	13.2	16
369	Interface-induced formation of onion-like alloy nanocrystals by defects engineering. Nano Research, 2016, 9, 584-592.	10.6	15
370	Oxygen-Bridged Long-Range Dual Sites Boost Ethanol Electrooxidation by Facilitating Câ€“C Bond Cleavage. Nano Letters, 2023, 23, 8194-8202.	9.5	15
371	Organocatalyst Supported by a Singleâ€Atom Support Accelerates both Electrodes used in the Chloralkali Industry via Modification of Nonâ€Covalent Interactions. Angewandte Chemie - International Edition, 2024, 63, .	14.8	15
372	Highly chemoselective hydrogenation of active benzaldehydes to benzyl alcohols catalyzed by bimetallic nanoparticles. Tetrahedron Letters, 2015, 56, 6460-6462.	1.4	14
373	PtAl truncated octahedron nanocrystals for improved formic acid electrooxidation. Chemical Communications, 2018, 54, 3951-3954.	4.2	14
374	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.	5.2	14
375	Reversible hydrogen spillover at the atomic interface for efficient alkaline hydrogen evolution. Energy and Environmental Science, 2024, 17, 1397-1406.	32.2	14
376	Rareâ€Earth Oxide Nanostructures: Rules of Rareâ€Earth Nitrate Thermolysis in Octadecylamine. Chemistry - an Asian Journal, 2010, 5, 925-931.	3.5	13
377	A used battery supported Ag catalyst for efficient oxidation of alcohols and carbon oxide. RSC Advances, 2014, 4, 25384-25388.	3.7	13
378	Silver Iodide Nanospheres Wrapped in Reduced Graphene Oxide for Enhanced Photocatalysis. ChemCatChem, 2015, 7, 2918-2923.	3.8	13

#	Article	IF	Citations
379	Identifying the Types and Characterization of the Active Sites on Mâ^'Xâ^'C Singleâ€Atom Catalysts. ChemPhysChem, 2020, 21, 2486-2496.	2.3	13
380	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.	3.3	13
381	Ruâ€"Co Pair Sites Catalyst Boosts the Energetics for the Oxygen Evolution Reaction. Angewandte Chemie, 2022, 134, .	2.1	13
382	Fabrication of highly oxidized Pt single-atom catalysts to suppress the deep hydrogenation of unsaturated aldehydes. Applied Catalysis B: Environmental, 2023, 333, 122783.	20.7	13
383	Non-heme Iron Single-Atom Nanozymes as Peroxidase Mimics for Tumor Catalytic Therapy. Nano Letters, 2023, 23, 8585-8592.	9.5	13
384	Preparation of Nearly Monodisperse Nanoscale Inorganic Pigments. Chemistry - an Asian Journal, 2006, 1, 91-94.	3.5	12
385	Rational Control of the Selectivity of a Ruthenium Catalyst for Hydrogenation of 4â€Nitrostyrene by Strain Regulation. Angewandte Chemie, 2017, 129, 12133-12137.	2.1	12
386	Synthesis of palladium and palladium sulfide nanocrystals via thermolysis of a Pdâ€"thiolate cluster. Science China Materials, 2015, 58, 936-943.	6.5	11
387	Câ€Terminal Cleavage of Human Foxp3 at a Proprotein Convertase Motif Abrogates its Suppressive Function. Scandinavian Journal of Immunology, 2015, 81, 229-239.	2.7	11
388	Revealing the surface atomic arrangement of noble metal alkane dehydrogenation catalysts by a stepwise reduction-oxidation approach. Nano Research, 2023, 16, 4499-4505.	10.6	11
389	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.	6.6	11
390	Single-atom catalysts for electrochemical applications. Chemical Communications, 2023, 59, 2560-2570.	4.2	11
391	Positively charged nickel-sulfur dual sites for efficient CO2 electroreduction reaction. Applied Catalysis B: Environmental, 2024, 342, 123389.	20.7	11
392	Growth and assembly of monodisperse Ag nanoparticles by exchanging the organic capping ligands. Journal of Materials Research, 2009, 24, 352-356.	2.6	10
393	C/N-sensitized self-assembly of mesostructured TiO2 nanospheres with significantly enhanced photocatalytic activity. New Journal of Chemistry, 2013, 37, 2582.	2.7	10
394	Interface-Mediated Synthesis of Transition-Metal (Mn, Co, and Ni) Hydroxide Nanoplates. Crystal Growth and Design, 2013, 13, 1949-1954.	3.2	10
395	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.	2.1	10
396	Mortality benefit of catheter ablation versus medical therapy in atrial fibrillation: An RCT only metaâ€analysis. Journal of Cardiovascular Electrophysiology, 2022, 33, 178-193.	1.7	10

#	Article	IF	Citations
397	Single-Atom Gadolinium Nano-Contrast Agents with High Stability for Tumor T₁ Magnetic Resonance Imaging. ACS Nano, 2023, 17, 8053-8063.	15.3	10
398	Electron Localization in Rationally Designed Pt₁Pd Single-Atom Alloy Catalyst Enables High-Performance Liâ€“O₂ Batteries. Journal of the American Chemical Society, 2024, 146, 2339-2344.	14.6	10
399	Overcoming Electrostatic Interaction via Pulsed Electroreduction for Boosting the Electrocatalytic Urea Synthesis. Angewandte Chemie - International Edition, 2024, 63, .	14.8	10
400	Machine learning: The trends of developing high-efficiency single-atom materials. Chem Catalysis, 2021, 1, 24-26.	6.4	9
401	Electronically Engineering Water Resistance in Methane Combustion with an Atomically Dispersed Tungsten on PdO Catalyst. Angewandte Chemie, 2022, 134, .	2.1	9
402	Co⁰â^'Co^{Î´+} Interface Doubleâ€Siteâ€Mediated Câ^'C Coupling for the Photothermal Conversion of CO₂ into Light Olefins. Angewandte Chemie, 2023, 135, .	2.1	9
403	Fundamental comprehension, synthetic procedures and catalytic applications of high entropy oxide nanomaterials. Materials Today, 2023, 70, 218-236.	18.1	9
404	Pdâ€“Mn/NC Dual Single-Atomic Sites with Hollow Mesopores for the Highly Efficient Semihydrogenation of Phenylacetylene. Journal of the American Chemical Society, 2024, 146, 2132-2140.	14.6	9
405	Cascade Dual Sites Modulate Local CO Coverage and Hydrogen-Binding Strength to Boost CO₂ Electroreduction to Ethylene. Journal of the American Chemical Society, 2024, 146, 5693-5701.	14.6	9
406	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.	2.4	8
407	P and Cu Dual Sites on Graphitic Carbon Nitride for Photocatalytic CO₂ Reduction to Hydrocarbon Fuels with High C₂H₆ Evolution. Angewandte Chemie, 2022, 134, .	2.1	8
408	Activity Regulation of Fenton/Fentonâ€like Reactions in Singleâ€Atom Catalysis. ChemCatChem, 2023, 15, .	3.8	8
409	Selective CO₂ Reduction to Ethylene Mediated by Adaptive Smallâ€molecule Engineering of Copperâ€based Electrocatalysts. Angewandte Chemie, 2023, 135, .	2.1	8
410	Ruthenium Single Atomic Sites Surrounding the Support Pit with Exceptional Photocatalytic Activity. Angewandte Chemie - International Edition, 2024, 63, .	14.8	8
411	Breaking the Scaling Relationship in Câ^'N Coupling via the Doping Effects for Efficient Urea Electrosynthesis. Angewandte Chemie - International Edition, 2024, 63, .	14.8	8
412	Hydrogenation of (N,N-disubstituted aminomethyl)nitrobenzenes to (N,N-disubstituted) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 Td (a 47125-47130.	3.7	7
413	Controllable synthesis of Ptâ€“Cu nanocrystals and their tunable catalytic properties. CrystEngComm, 2016, 18, 3764-3767.	2.4	7
414	A facile strategy for the synthesis of branched Ptâ€“Pdâ€“M (M = Co, Ni) trimetallic nanocrystals. CrystEngComm, 2016, 18, 4023-4026.	2.4	7

#	Article	IF	Citations
415	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.	2.6	7
416	Stable, Efficient, Copper Coordination Polymer-Derived Heterostructured Catalyst for Oxygen Evolution under pH-Universal Conditions. ACS Applied Materials & Interfaces, 2021, 13, 25461-25471.	8.3	7
417	Unraveling the Activity Trends and Design Principles of Single-Atom Catalysts for Nitrate Electrocatalytic Reduction. ACS Nano, 2023, 17, 25614-25624.	15.3	7
418	Heterogeneous Rhodium Single-Atom-Site Catalyst Enables Chemoselective Carbene Nâ€“H Bond Insertion. Journal of the American Chemical Society, 2024, 146, 10847-10856.	14.6	7
419	Shape-Dependent Catalytic Activity of CuO/MgO Nanocatalysts. Journal of Nanoscience and Nanotechnology, 2007, 7, 3602-3606.	0.9	6
420	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.	2.1	6
421	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.	0.7	6
422	Synergistic Feâ^'Se Atom Pairs as Bifunctional Oxygen Electrocatalysts Boost Lowâ€Temperature Rechargeable Znâ€Air Battery. Angewandte Chemie, 2023, 135, .	2.1	6
423	Nanocurvature-induced field effects enable control over the activity of single-atom electrocatalysts. Nature Communications, 2024, 15, .	13.2	6
424	Room-Temperature Hydrogenation of Citral Catalyzed by Palladium-Silver Nanocrystals Supported on SnO2. European Journal of Inorganic Chemistry, 2015, 2015, 2120-2124.	2.2	5
425	Chemoselective hydrogenation of nitrobenzyl ethers to aminobenzyl ethers catalyzed by palladiumâ€“nickel bimetallic nanoparticles. Tetrahedron, 2015, 71, 9240-9244.	2.0	5
426	Advanced dual-atom catalysts for efficient oxygen evolution reaction. EES Catalysis, 2023, 1, 665-676.	0.0	5
427	Cooperative Ni(Co)â€Ruâ€P Sites Activate Dehydrogenation for Hydrazine Oxidation Assisting Selfâ€powered H₂ Production. Angewandte Chemie, 2023, 135, .	2.1	5
428	Accelerating the Hydrogen Production via Modifying the Fermi Surface. Nano Letters, 2023, 23, 11368-11375.	9.5	5
429	Spatial configuration of Feâ€“Co dual-sites boosting catalytic intermediates coupling toward oxygen evolution reaction. Proceedings of the National Academy of Sciences of the United States of America, 2024, 121, .	7.6	5
430	Tailoring Oxygen Reduction Reaction Kinetics of Feâ^'Nâ^'C Catalyst via Spin Manipulation for Efficient Zincâ€“Air Batteries. Advanced Materials, 2024, 36, .	24.3	5
431	NGS-Based Molecular Karyotyping of Multiple Myeloma: Results from the GEM12 Clinical Trial. Cancers, 2022, 14, 5169.	3.8	4
432	Tuning oxidant and antioxidant activities of ceria by anchoring copper single-site for antibacterial application. Nature Communications, 2024, 15, .	13.2	4

#	Article	IF	Citations
433	Singleâ€Atom Iron Catalyst as an Advanced Redox Mediator for Anodic Oxidation of Organic Electrosynthesis. Angewandte Chemie - International Edition, 2024, 63, .	14.8	4
434	Synthesis of LiV3O8 nanorods and shape-dependent electrochemical performance. Journal of Materials Research, 2011, 26, 424-429.	2.6	3
435	A general strategy to prepare atomically dispersed biomimetic catalysts based on hostâ€“guest chemistry. Chemical Communications, 2021, 57, 1895-1898.	4.2	3
436	Tuning Mass Transport in Electrocatalysis Down to Subâ€5â€…nm through Nanoscale Grade Separation. Angewandte Chemie, 2023, 135, .	2.1	3
437	Precise Synthesis at the Atomic Scale. , 2023, 1, 199-225.		3
438	Symmetryâ€Broken Ru Nanoparticles with Parasitic Ruâ€Co Dualâ€Single Atoms Overcome the Volmer Step of Alkaline Hydrogen Oxidation. Angewandte Chemie, 2024, 136, .	2.1	3
439	Heterogeneous Iridium-Catalyzed Carbene Nâ€“H Bond Insertion with Î±-Alkyl Diazo Esters. ACS Catalysis, 2024, 14, 4690-4698.	11.7	3
440	A Singleâ€Atom Cobalt Catalyst for the Fluorination of Acyl Chlorides at Partsâ€perâ€Million Catalyst Loading. Angewandte Chemie, 2022, 134, .	2.1	2
441	Synergy of Photogenerated Electrons and Holes toward Efficient Photocatalytic Urea Synthesis from CO₂ and N₂. Angewandte Chemie - International Edition, 0, , .	14.8	2
442	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.	9.6	1
443	Bimetal catalytic nanomaterials. Scientia Sinica Chimica, 2014, 44, 85-99.	0.4	1
444	Atomicâ€Level Regulation of Cobalt Singleâ€Atom Nanozymes: Engineering Highâ€Efficiency Catalase Mimics. Angewandte Chemie, 2023, 135, .	2.1	1
445	Why do Singleâ€Atom Alloys Catalysts Outperform both Singleâ€Atom Catalysts and Nanocatalysts on MXene?. Angewandte Chemie, 2024, 136, .	2.1	1
446	Modulating Alcohol Adsorption Modes for Boosting Electrooxidation-Assisted Hydrogen Production. ACS Catalysis, 2024, 14, 7674-7683.	11.7	1
447	A Simple Organoâ€Electrocatalysis System for the Chlorâ€Related Industry. Angewandte Chemie - International Edition, 0, , .	14.8	1
448	Atomic-Level Asymmetric Tuning of the Co₁â€“N₃P₁ Catalyst for Highly Efficient N-Alkylation of Amines with Alcohols. Journal of the American Chemical Society, 0, , .	14.6	1
449	Engineering a Copper Singleâ€Atom Electron Bridge to Achieve Efficient Photocatalytic CO ₂ Conversion. Angewandte Chemie, 2023, 135, .	2.1	0
450	Singleâ€Atom Manganeseâ€Catalyzed Oxygen Evolution Drives the Electrochemical Oxidation of Silane to Silanol. Angewandte Chemie, 0, , .	2.1	0

#	Article	IF	Citations
451	Advances in the study of HOR reaction mechanisms under alkaline conditions. Advanced Sensor and Energy Materials, 2024, 3, 100089.	3.5	0
452	Organocatalyst Supported by a Singleâ€Atom Support Accelerates both Electrodes used in the Chlorâ€Alkali Industry via Modification of Nonâ€Covalent Interactions. Angewandte Chemie, 2024, 136, .	2.1	0
453	Ruthenium Single Atomic Sites Surrounding the Support Pit with Exceptional Photocatalytic Activity. Angewandte Chemie, 2024, 136, .	2.1	0
454	Atomic Pt Sites Anchored in the Interface between Grains on Vacancyâ€Enriched CeO₂ Nanosheets: Oneâ€Step Precursor Combustion Synthesis. Advanced Materials, 2024, 36, .	24.3	0
455	Overcoming Electrostatic Interaction via Pulsed Electroreduction for Boosting the Electrocatalytic Urea Synthesis. Angewandte Chemie, 2024, 136, .	2.1	0
456	Breaking the Scaling Relationship in Cî”N Coupling via the Doping Effects for Efficient Urea Electrosynthesis. Angewandte Chemie, 2024, 136, .	2.1	0
457	Singleâ€Atom Iron Catalyst as an Advanced Redox Mediator for Anodic Oxidation of Organic Electrosynthesis. Angewandte Chemie, 2024, 136, .	2.1	0
458	A Simple Organoâ€Electrocatalysis System for the Chlorâ€Related Industry. Angewandte Chemie, 0, , .	2.1	0
459	Lattice Strain and Mottâ€“Schottky Effect of the Charge-Asymmetry Pd₁Fe Single-Atom Alloy Catalyst for Semi-Hydrogenation of Alkynes with High Efficiency. ACS Nano, 2024, 18, 13286-13297.	15.3	0
460	Deciphering Cationic and Anionic Overoxidation: Key Insights into the Intrinsic Structural Degradation of Catalysts. Advanced Energy Materials, 0, , .	22.2	0
461	A Janus dual-atom catalyst for electrocatalytic oxygen reduction and evolution. Nature Synthesis, 2024, 3, 878-890.	10.0	0
462	Synergy of Photogenerated Electrons and Holes toward Efficient Photocatalytic Urea Synthesis from CO₂ and N₂. Angewandte Chemie, 0, , .	2.1	0
463	Tailoring dâ€“p Orbital Hybridization to Decipher the Essential Effects of Heteroatom Substitution on Redox Kinetics. Angewandte Chemie, 0, , .	2.1	0
464	Tailoring dâ€“p Orbital Hybridization to Decipher the Essential Effects of Heteroatom Substitution on Redox Kinetics. Angewandte Chemie - International Edition, 0, , .	14.8	0
465	Efficient Hydrogen Generation from Ammonia Borane Hydrolysis on a Tandem Rutheniumâ€“Platinumâ€“Titanium Catalyst. Angewandte Chemie - International Edition, 0, , .	14.8	0
466	Efficient Hydrogen Generation from Ammonia Borane Hydrolysis on a Tandem Rutheniumâ€“Platinumâ€“Titanium Catalyst. Angewandte Chemie, 0, , .	2.1	0
467	Atomically dispersed multi-site catalysts: bifunctional oxygen electrocatalysts boost flexible zincâ€“air battery performance. Energy and Environmental Science, 0, , .	32.2	0
468	Efficient Electrochemical Nitrate Reduction to Ammonia Driven by a Few Nanometer-Confined Built-In Electric Field. ACS Catalysis, 2024, 14, 10437-10446.	11.7	0

#	Article	IF	Citations
469	Highly efficient recycling of polyester wastes to diols using Ru and Mo dual-atom catalyst. Nature Communications, 2024, 15, .	13.2	0
470	Shearâ€strained Pd Singleâ€atom Electrocatalysts for Nitrate Reduction to Ammonia. Angewandte Chemie, 0, , .	2.1	0
471	Analytical Solution for Contaminant Transport through a Soilâ€“Bentonite (SB)/Geosynthetic Clay Liner (GCL)/Soilâ€“Bentonite (SB) Composite Cutoff Wall and an Aquifer. Processes, 2024, 12, 1486.	2.8	0
472	Shearâ€strained Pd Singleâ€atom Electrocatalysts for Nitrate Reduction to Ammonia. Angewandte Chemie - International Edition, 0, , .	14.8	0
473	Carbon-Boosted and Nitrogen-Stabilized Isolated Single-Atom Sites for Direct Dehydrogenation of Lower Alkanes. Journal of the American Chemical Society, 0, , .	14.6	0
474	Enhancing radiation-resistance and peroxidase-like activity of single-atom copper nanozyme via local coordination manipulation. Nature Communications, 2024, 15, .	13.2	0
475	Tuning the Local Environment of Pt Species at CNT@MO_{2â€“x} (M = Sn and Ce) Heterointerfaces for Boosted Alkaline Hydrogen Evolution. Journal of the American Chemical Society, 0, , .	14.6	0
476	Steering the Site Distance of Atomic Cuâ€Cu Pairs by Firstâ€Shell Halogen Coordination Boosts CO2â€toâ€C2 Selectivity. Angewandte Chemie - International Edition, 0, , .	14.8	0
477	Steering the Site Distance of Atomic Cuâ€Cu Pairs by Firstâ€Shell Halogen Coordination Boosts CO2â€toâ€C2 Selectivity. Angewandte Chemie, 0, , .	2.1	0
478	A Metalâ€“Sulfurâ€“Carbon Catalyst Mimicking the Twoâ€Component Architecture of Nitrogenase. Angewandte Chemie - International Edition, 0, , .	14.8	0
479	A Metalâ€“Sulfurâ€“Carbon Catalyst Mimicking the Twoâ€Component Architecture of Nitrogenase. Angewandte Chemie, 0, , .	2.1	0
480	Copper Atom Pairs Stabilize *OCCO Dipole Toward Highly Selective CO2 Electroreduction to C2H4. Angewandte Chemie, 0, , .	2.1	0
481	Copper Atom Pairs Stabilize *OCCO Dipole Toward Highly Selective CO2 Electroreduction to C2H4. Angewandte Chemie - International Edition, 0, , .	14.8	0
482	Encapsulation of Pd Single-Atom Sites in Zeolite for Highly Efficient Semihydrogenation of Alkynes. Journal of the American Chemical Society, 0, , .	14.6	0
483	Inducing a Synergistic Effect on Pt^{Î´+}/Electron-Rich Sites via a Platinization Strategy: Generating Hyper-High Current Density in Hydrogen Evolution Reaction. Nano Letters, 0, , .	9.5	0
484	A General Metal Ion Recognition Strategy to Mediate Dual-Atomic-Site Catalysts. Journal of the American Chemical Society, 0, , .	14.6	0
485	Inhibited Passivation by Bioinspired Cell Membrane Zn Interface for Znâ€“Air Batteries with Extended Temperature Adaptability. Advanced Materials, 0, , .	24.3	0
486	Atomically Dispersed Metal Cocatalysts for Solar Energy Conversion. Energy and Environmental Science, 0, , .	32.2	0

#	Article	IF	Citations
487	Insights into the pH effect on hydrogen electrocatalysis. Chemical Society Reviews, 0, , .	40.3	0
488	Advancing Heterogeneous Organic Synthesis With Coordination Chemistryâ€Empowered Singleâ€Atom Catalysts. Advanced Materials, 0, , .	24.3	0
489	Atomically Dispersed Palladium Catalyst for Chemoselective Hydrogenation of Quinolines. Nano Letters, 2024, 24, 12666-12675.	9.5	0
490	Microenvironment Engineering of Covalent Organic Frameworks based Single/Dual-Atom Catalysts toward Sustainable Energy Conversion and Storage. Energy and Environmental Science, 0, , .	32.2	0
491	Sulfur-doped g-C3N4/V2C MXene Schottky junctions for superior photocatalytic H2 evolution. Journal of Materials Chemistry A, 0, , .	10.5	0