Chen Chen

List of Publications by Citations

169 papers	20,132 citations	66 h-index	141 g-index
172 ext. papers	25,809 ext. citations	13.5 avg, IF	7.03 L-index

#	Paper	IF	Citations
169	Highly crystalline multimetallic nanoframes with three-dimensional electrocatalytic surfaces. *Science*, **2014**, 343, 1339-43	33.3	1989
168	Core-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	16.4	1073
167	Single-Atom Catalysts: Synthetic Strategies and Electrochemical Applications. *Joule*, **2018**, 2, 1242-1264	27.8	1046
166	Single platinum atoms immobilized on an MXene as an efficient catalyst for the hydrogen evolution reaction. *Nature Catalysis*, **2018**, 1, 985-992	36.5	739
165	Design of Single-Atom Co-N Catalytic Site: A Robust Electrocatalyst for CO Reduction with Nearly 100% CO Selectivity and Remarkable Stability. *Journal of the American Chemical Society*, **2018**, 140, 4218-4221	16.4	634
164	Size Dependence of Structural Metastability in Semiconductor Nanocrystals. *Science*, **1997**, 276, 398-401	33.3	492
163	Defect Effects on TiO Nanosheets: Stabilizing Single Atomic Site Au and Promoting Catalytic Properties. *Advanced Materials*, **2018**, 30, 1705369	24	474
162	Direct observation of noble metal nanoparticles transforming to thermally stable single atoms. *Nature Nanotechnology*, **2018**, 13, 856-861	28.7	471
161	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	16.4	444
160	Enhanced oxygen reduction with single-atomic-site iron catalysts for a zinc-air battery and hydrogen-air fuel cell. *Nature Communications*, **2018**, 9, 5422	17.4	431
159	Tuning the Coordination Environment in Single-Atom Catalysts to Achieve Highly Efficient Oxygen Reduction Reactions. *Journal of the American Chemical Society*, **2019**, 141, 20118-20126	16.4	352
158	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	338
157	Copper atom-pair catalyst anchored on alloy nanowires for selective and efficient electrochemical reduction of CO. *Nature Chemistry*, **2019**, 11, 222-228	17.6	337
156	Atomic site electrocatalysts for water splitting, oxygen reduction and selective oxidation. *Chemical Society Reviews*, **2020**, 49, 2215-2264	58.5	309
155	Highly efficient nonprecious metal catalyst prepared with metal-organic framework in a continuous carbon nanofibrous network. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 10629-34	11.5	308
154	A Bimetallic Zn/Fe Polyphthalocyanine-Derived Single-Atom Fe-N Catalytic Site:A Superior Trifunctional Catalyst for Overall Water Splitting and Zn-Air Batteries. *Angewandte Chemie - International Edition*, **2018**, 57, 8614-8618	16.4	305
153	Single Tungsten Atoms Supported on MOF-Derived N-Doped Carbon for Robust Electrochemical Hydrogen Evolution. *Advanced Materials*, **2018**, 30, e1800396	24	302

152	Rational Design of Single Molybdenum Atoms Anchored on N-Doped Carbon for Effective Hydrogen Evolution Reaction. *Angewandte Chemie - International Edition*, **2017**, 56, 16086-16090	16.4	299
151	A versatile bottom-up assembly approach to colloidal spheres from nanocrystals. *Angewandte Chemie - International Edition*, **2007**, 46, 6650-3	16.4	287
150	MXene (TiC) Vacancy-Confined Single-Atom Catalyst for Efficient Functionalization of CO. *Journal of the American Chemical Society*, **2019**, 141, 4086-4093	16.4	277
149	Bismuth Single Atoms Resulting from Transformation of Metal-Organic Frameworks and Their Use as Electrocatalysts for CO Reduction. *Journal of the American Chemical Society*, **2019**, 141, 16569-16573	16.4	267
148	Electronic structure and d-band center control engineering over M-doped CoP (M = Ni, Mn, Fe) hollow polyhedron frames for boosting hydrogen production. *Nano Energy*, **2019**, 56, 411-419	17.1	252
147	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	11.5	222
146	Single-atom Rh/N-doped carbon electrocatalyst for formic acid oxidation. *Nature Nanotechnology*, **2020**, 15, 390-397	28.7	208
145	Iridium single-atom catalyst on nitrogen-doped carbon for formic acid oxidation synthesized using a general host-guest strategy. *Nature Chemistry*, **2020**, 12, 764-772	17.6	207
144	Sophisticated construction of Au islands on Pt-Ni: an ideal trimetallic nanoframe catalyst. *Journal of the American Chemical Society*, **2014**, 136, 11594-7	16.4	206
143	Anisotropic phase segregation and migration of Pt in nanocrystals en route to nanoframe catalysts. *Nature Materials*, **2016**, 15, 1188-1194	27	205
142	A Polymer Encapsulation Strategy to Synthesize Porous Nitrogen-Doped Carbon-Nanosphere-Supported Metal Isolated-Single-Atomic-Site Catalysts. *Advanced Materials*, **2018**, 30, e1706508	24	203
141	Electronic structure engineering to boost oxygen reduction activity by controlling the coordination of the central metal. *Energy and Environmental Science*, **2018**, 11, 2348-2352	35.4	203
140	Constructing NiCo/FeO Heteroparticles within MOF-74 for Efficient Oxygen Evolution Reactions. *Journal of the American Chemical Society*, **2018**, 140, 15336-15341	16.4	193
139	Evolution of Nanoporous PtFe Alloy Nanowires by Dealloying and their Catalytic Property for Oxygen Reduction Reaction. *Advanced Functional Materials*, **2011**, 21, 3357-3362	15.6	187
138	Cation vacancy stabilization of single-atomic-site Pt/Ni(OH) catalyst for diboration of alkynes and alkenes. *Nature Communications*, **2018**, 9, 1002	17.4	179
137	Regulating the coordination structure of single-atom Fe-NC catalytic sites for benzene oxidation. *Nature Communications*, **2019**, 10, 4290	17.4	173
136	Atomic Structure of Pt3Ni Nanoframe Electrocatalysts by in Situ X-ray Absorption Spectroscopy. *Journal of the American Chemical Society*, **2015**, 137, 15817-24	16.4	163
135	Carbon nitride supported Fe cluster catalysts with superior performance for alkene epoxidation. *Nature Communications*, **2018**, 9, 2353	17.4	162

134	Construction of CoP/NiCoP Nanotadpoles Heterojunction Interface for Wide pH Hydrogen Evolution Electrocatalysis and Supercapacitor. *Advanced Energy Materials*, **2019**, 9, 1901213	21.8	160
133	Confined Pyrolysis within Metal-Organic Frameworks To Form Uniform Ru Clusters for Efficient Oxidation of Alcohols. *Journal of the American Chemical Society*, **2017**, 139, 9795-9798	16.4	157
132	High-Concentration Single Atomic Pt Sites on Hollow CuSx for Selective O2 Reduction to H2O2 in Acid Solution. *CheM*, **2019**, 5, 2099-2110	16.2	152
131	Amorphous nickel boride membrane on a platinum-nickel alloy surface for enhanced oxygen reduction reaction. *Nature Communications*, **2016**, 7, 12362	17.4	147
130	Discovering Partially Charged Single-Atom Pt for Enhanced Anti-Markovnikov Alkene Hydrosilylation. *Journal of the American Chemical Society*, **2018**, 140, 7407-7410	16.4	147
129	Functionalization of Hollow Nanomaterials for Catalytic Applications: Nanoreactor Construction. *Advanced Materials*, **2019**, 31, e1800426	24	147
128	Accelerating water dissociation kinetics by isolating cobalt atoms into ruthenium lattice. *Nature Communications*, **2018**, 9, 4958	17.4	147
127	Coupling N and CO in HO to synthesize urea under ambient conditions. *Nature Chemistry*, **2020**, 12, 717-724	17.4	146
126	A photochromic composite with enhanced carrier separation for the photocatalytic activation of benzylic C–H bonds in toluene. *Nature Catalysis*, **2018**, 1, 704-710	36.5	144
125	Strain Engineering to Enhance the Electrooxidation Performance of Atomic-Layer Pt on Intermetallic PtGa. *Journal of the American Chemical Society*, **2018**, 140, 2773-2776	16.4	141
124	Quantitative Study of Charge Carrier Dynamics in Well-Defined WO Nanowires and Nanosheets: Insight into the Crystal Facet Effect in Photocatalysis. *Journal of the American Chemical Society*, **2018**, 140, 9078-9082	16.4	137
123	Solvothermal synthesis of lithium iron phosphate nanoplates. *Journal of Materials Chemistry*, **2011**, 21, 9994		136
122	Synergistically Interactive Pyridinic-N-MoP Sites: Identified Active Centers for Enhanced Hydrogen Evolution in Alkaline Solution. *Angewandte Chemie - International Edition*, **2020**, 59, 8982-8990	16.4	134
121	A cocoon silk chemistry strategy to ultrathin N-doped carbon nanosheet with metal single-site catalysts. *Nature Communications*, **2018**, 9, 3861	17.4	132
120	Tandem Catalysis for CO Hydrogenation to C-C Hydrocarbons. *Nano Letters*, **2017**, 17, 3798-3802	11.5	124
119	A General Strategy for Fabricating Isolated Single Metal Atomic Site Catalysts in Y Zeolite. *Journal of the American Chemical Society*, **2019**, 141, 9305-9311	16.4	124
118	Temperature-Controlled Selectivity of Hydrogenation and Hydrodeoxygenation in the Conversion of Biomass Molecule by the Ru/mpg-CN Catalyst. *Journal of the American Chemical Society*, **2018**, 140, 11161-11164	16.4	120
117	Three-dimensional open nano-netcage electrocatalysts for efficient pH-universal overall water splitting. *Nature Communications*, **2019**, 10, 4875	17.4	119

116	Ordered Porous Nitrogen-Doped Carbon Matrix with Atomically Dispersed Cobalt Sites as an Efficient Catalyst for Dehydrogenation and Transfer Hydrogenation of N-Heterocycles. *Angewandte Chemie - International Edition*, **2018**, 57, 11262-11266	16.4	119
115	Structural Regulation with Atomic-Level Precision: From Single-Atomic Site to Diatomic and Atomic Interface Catalysis. *Matter*, **2020**, 2, 78-110	12.7	107
114	Systematic synthesis of lanthanide phosphate nanocrystals. *Chemistry - A European Journal*, **2007**, 13, 7708-14	4.8	105
113	One-step accurate synthesis of shell controllable CoFe2O4 hollow microspheres as high-performance electrode materials in supercapacitor. *Nano Research*, **2016**, 9, 2026-2033	10	99
112	Mesoporous multicomponent nanocomposite colloidal spheres: ideal high-temperature stable model catalysts. *Angewandte Chemie - International Edition*, **2011**, 50, 3725-9	16.4	93
111	Atomically Dispersed Ruthenium Species Inside Metal-Organic Frameworks: Combining the High Activity of Atomic Sites and the Molecular Sieving Effect of MOFs. *Angewandte Chemie - International Edition*, **2019**, 58, 4271-4275	16.4	92
110	Monoclinic Tungsten Oxide with {100} Facet Orientation and Tuned Electronic Band Structure for Enhanced Photocatalytic Oxidations. *ACS Applied Materials & Interfaces*, **2016**, 8, 10367-74	9.5	86
109	Single-Site Au Catalyst for Silane Oxidation with Water. *Advanced Materials*, **2018**, 30, 1704720	24	84
108	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	83
107	Scale-Up Biomass Pathway to Cobalt Single-Site Catalysts Anchored on N-Doped Porous Carbon Nanobelt with Ultrahigh Surface Area. *Advanced Functional Materials*, **2018**, 28, 1802167	15.6	78
106	MOF-Confined Sub-2 nm Atomically Ordered Intermetallic PdZn Nanoparticles as High-Performance Catalysts for Selective Hydrogenation of Acetylene. *Advanced Materials*, **2018**, 30, e1801878	24	77
105	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	13.1	75
104	Transition-metal phosphate colloidal spheres. *Angewandte Chemie - International Edition*, **2009**, 48, 4816-9	16.4	68
103	Insights into the Mechanism of Tandem Alkene Hydroformylation over a Nanostructured Catalyst with Multiple Interfaces. *Journal of the American Chemical Society*, **2016**, 138, 11568-74	16.4	66
102	Hierarchical trimetallic Co-Ni-Fe oxides derived from core-shell structured metal-organic frameworks for highly efficient oxygen evolution reaction. *Applied Catalysis B: Environmental*, **2021**, 287, 119953	21.8	66
101	Atomically dispersed Fe atoms anchored on COF-derived N-doped carbon nanospheres as efficient multi-functional catalysts. *Chemical Science*, **2019**, 11, 786-790	9.4	64
100	Ir-Cu nanoframes: one-pot synthesis and efficient electrocatalysts for oxygen evolution reaction. *Chemical Communications*, **2016**, 52, 3793-6	5.8	63
99	Convenient fabrication of BiOBr ultrathin nanosheets with rich oxygen vacancies for photocatalytic selective oxidation of secondary amines. *Nano Research*, **2019**, 12, 1625-1630	10	62

98	Revealing the Active Species for Aerobic Alcohol Oxidation by Using Uniform Supported Palladium Catalysts. *Angewandte Chemie - International Edition*, **2018**, 57, 4642-4646	16.4	62
97	Isolating contiguous Pt atoms and forming Pt-Zn intermetallic nanoparticles to regulate selectivity in 4-nitrophenylacetylene hydrogenation. *Nature Communications*, **2019**, 10, 3787	17.4	60
96	Interfacial effects in supported catalysts for electrocatalysis. *Journal of Materials Chemistry A*, **2019**, 7, 23432-23450	13	57
95	Self-assembly of uniform hexagonal yttrium phosphate nanocrystals. *Chemical Communications*, **2006**, 3522-4	5.8	54
94	Tuning Polarity of Cu-O Bond in Heterogeneous Cu Catalyst to Promote Additive-free Hydroboration of Alkynes. *CheM*, **2020**, 6, 725-737	16.2	53
93	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	51
92	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	9.5	51
91	Electrocatalyst engineering and structure-activity relationship in hydrogen evolution reaction: From nanostructures to single atoms. *Science China Materials*, **2020**, 63, 921-948	7.1	48
90	Porous organic cage stabilised palladium nanoparticles: efficient heterogeneous catalysts for carbonylation reaction of aryl halides. *Chemical Communications*, **2018**, 54, 2796-2799	5.8	48
89	Atomically dispersed Ni in cadmium-zinc sulfide quantum dots for high-performance visible-light photocatalytic hydrogen production. *Science Advances*, **2020**, 6, eaaz8447	14.3	47
88	Constructing FeN4/graphitic nitrogen atomic interface for high-efficiency electrochemical CO2 reduction over a broad potential window. *CheM*, **2021**, 7, 1297-1307	16.2	44
87	Atomically dispersed Ni–Ru–P interface sites for high-efficiency pH-universal electrocatalysis of hydrogen evolution. *Nano Energy*, **2021**, 80, 105467	17.1	44
86	A Versatile Bottom-up Assembly Approach to Colloidal Spheres from Nanocrystals. *Angewandte Chemie*, **2007**, 119, 6770-6773	3.6	43
85	Isolated Iron Single-Atomic Site-Catalyzed Chemoselective Transfer Hydrogenation of Nitroarenes to Arylamines. *ACS Applied Materials & Interfaces*, **2019**, 11, 33819-33824	9.5	42
84	Tuning strain effect and surface composition in PdAu hollow nanospheres as highly efficient ORR electrocatalysts and SERS substrates. *Applied Catalysis B: Environmental*, **2020**, 262, 118298	21.8	42
83	Fabricating Pd isolated single atom sites on C3N4/rGO for heterogenization of homogeneous catalysis. *Nano Research*, **2020**, 13, 947-951	10	41
82	Single-Atom Au–N3 Site for Acetylene Hydrochlorination Reaction. *ACS Catalysis*, **2020**, 10, 1865-1870	13.1	41
81	Ultrathin Pt–Zn Nanowires: High-Performance Catalysts for Electrooxidation of Methanol and Formic Acid. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 77-81	8.3	41

80	A Bimetallic Zn/Fe Polyphthalocyanine-Derived Single-Atom Fe-N4 Catalytic Site:A Superior Trifunctional Catalyst for Overall Water Splitting and Zn–Air Batteries. *Angewandte Chemie*, **2018**, 130, 8750-8754	3.6	40
79	Fe1N4□1 site with axial Fe□ coordination for highly selective CO2 reduction over a wide potential range. *Energy and Environmental Science*, **2021**, 14, 3430-3437	35.4	40
78	Nitrogen-coordinated cobalt nanocrystals for oxidative dehydrogenation and hydrogenation of N-heterocycles. *Chemical Science*, **2019**, 10, 5345-5352	9.4	39
77	50 ppm of Pd dispersed on Ni(OH)2 nanosheets catalyzing semi-hydrogenation of acetylene with high activity and selectivity. *Nano Research*, **2018**, 11, 905-912	10	39
76	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	38
75	Free-standing palladium-nickel alloy wavy nanosheets. *Nano Research*, **2016**, 9, 2244-2250	10	36
74	Synthesis of PtCo3 polyhedral nanoparticles and evolution to Pt3Co nanoframes. *Surface Science*, **2016**, 648, 328-332	1.8	35
73	Two-dimensional SnO2/graphene heterostructures for highly reversible electrochemical lithium storage. *Science China Materials*, **2018**, 61, 1527-1535	7.1	35
72	One-pot synthesis of monodisperse CeO2 nanocrystals and superlattices. *Chemical Communications* , **2008**, 3741-3	5.8	33
71	Super-hydrophobic yolk-shell nanostructure with enhanced catalytic performance in the reduction of hydrophobic nitroaromatic compounds. *Chemical Communications*, **2013**, 49, 9591-3	5.8	32
70	Microwave-assisted synthesis of layer-by-layer ultra-large and thin NiAl-LDH/RGO nanocomposites and their excellent performance as electrodes. *Science China Materials*, **2015**, 58, 944-952	7.1	32
69	Gold nanoparticles confined in the interconnected carbon foams with high temperature stability. *Chemical Communications*, **2012**, 48, 10404-6	5.8	30
68	Preparation and electrochemical characterization of ultrathin WO3□ /C nanosheets as anode materials in lithium ion batteries. *Nano Research*, **2017**, 10, 1903-1911	10	29
67	Ultra-thin Cu2S nanosheets: effective cocatalysts for photocatalytic hydrogen production. *Chemical Communications*, **2015**, 51, 13305-8	5.8	29
66	Two-Dimensional SnO2 Nanosheets for Efficient Carbon Dioxide Electroreduction to Formate. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 4975-4982	8.3	29
65	Interface Engineering of Partially Phosphidated Co@Co-P@NPCNTs for Highly Enhanced Electrochemical Overall Water Splitting. *Small*, **2020**, 16, e2002124	11	29
64	Engineering a light-weight, thin and dual-functional interlayer as □olysulfides sieve□ capable of synergistic adsorption for high-performance lithium-sulfur batteries. *Chemical Engineering Journal*, **2020**, 383, 123163	14.7	29
63	Implication of iron nitride species to enhance the catalytic activity and stability of carbon nanotubes supported Fe catalysts for carbon-free hydrogen production via low-temperature ammonia decomposition. *Catalysis Science and Technology*, **2018**, 8, 907-915	5.5	27

62	Atomic Co/Ni dual sites with N/P-coordination as bifunctional oxygen electrocatalyst for rechargeable zinc-air batteries. *Nano Research*, **2021**, 14, 3482-3488	10	27
61	Graphdiyne/Graphene Heterostructure: A Universal 2D Scaffold Anchoring Monodispersed Transition-Metal Phthalocyanines for Selective and Durable CO Electroreduction. *Journal of the American Chemical Society*, **2021**, 143, 8679-8688	16.4	26
60	Sub-nm ruthenium cluster as an efficient and robust catalyst for decomposition and synthesis of ammonia: Break the □ize shackles□*Nano Research*, **2018**, 11, 4774-4785	10	25
59	Pd-dispersed CuS hetero-nanoplates for selective hydrogenation of phenylacetylene. *Nano Research*, **2016**, 9, 1209-1219	10	25
58	Size structure-catalytic performance correlation of supported Ni/MCF-17 catalysts for CO-free hydrogen production. *Chemical Communications*, **2018**, 54, 6364-6367	5.8	25
57	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	24
56	Synergistically Interactive Pyridinic-N□MoP Sites: Identified Active Centers for Enhanced Hydrogen Evolution in Alkaline Solution. *Angewandte Chemie*, **2020**, 132, 9067-9075	3.6	24
55	Deciphering the alternating synergy between interlayer Pt single-atom and NiFe layered double hydroxide for overall water splitting. *Energy and Environmental Science*,	35.4	23
54	Ordered Porous Nitrogen-Doped Carbon Matrix with Atomically Dispersed Cobalt Sites as an Efficient Catalyst for Dehydrogenation and Transfer Hydrogenation of N-Heterocycles. *Angewandte Chemie*, **2018**, 130, 11432-11436	3.6	23
53	Topological self-template directed synthesis of multi-shelled intermetallic NiGa hollow microspheres for the selective hydrogenation of alkyne. *Chemical Science*, **2019**, 10, 614-619	9.4	20
52	Reaction environment self-modification on low-coordination Ni2+ octahedra atomic interface for superior electrocatalytic overall water splitting. *Nano Research*, **2020**, 13, 3068-3074	10	20
51	Seed-mediated synthesis of hexameric octahedral PtPdCu nanocrystals with high electrocatalytic performance. *Chemical Communications*, **2015**, 51, 15406-9	5.8	19
50	Synergistic effect of bimetallic PdAu nanocrystals on oxidative alkyne homocoupling. *Chemical Communications*, **2018**, 54, 13155-13158	5.8	18
49	Partial positively charged Pt in Pt/MgAl2O4 for enhanced dehydrogenation activity. *Applied Catalysis B: Environmental*, **2021**, 288, 119996	21.8	18
48	Au/CuSiO3 nanotubes: High-performance robust catalysts for selective oxidation of ethanol to acetaldehyde. *Nano Research*, **2016**, 9, 2681-2686	10	17
47	The design of hollow PdO-CoO nano-dodecahedrons with moderate catalytic activity for Li-O batteries. *Chemical Communications*, **2019**, 55, 12683-12686	5.8	17
46	Porous □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	17
45	Facile synthesis of CoNi nanoparticles embedded in nitrogen-carbon frameworks for highly efficient electrocatalytic oxygen evolution. *Chemical Communications*, **2017**, 53, 12177-12180	5.8	16

44	Cobalt Single Atom Incorporated in Ruthenium Oxide Sphere: A Robust Bifunctional Electrocatalyst for HER and OER. *Angewandte Chemie - International Edition*, **2021**,	16.4	16
43	Nano PdAu Bimetallic Alloy as an Effective Catalyst for the Buchwald-Hartwig Reaction. *Chemistry - an Asian Journal*, **2016**, 11, 351-5	4.5	16
42	Revealing the Active Species for Aerobic Alcohol Oxidation by Using Uniform Supported Palladium Catalysts. *Angewandte Chemie*, **2018**, 130, 4732-4736	3.6	15
41	Ordered two-dimensional porous Co3O4 nanosheets as electrocatalysts for rechargeable Li-O2 batteries. *Nano Research*, **2019**, 12, 299-302	10	15
40	Selective hydrogenation of N-heterocyclic compounds over rhodium-copper bimetallic nanocrystals under ambient conditions. *Nano Research*, **2019**, 12, 1631-1634	10	14
39	Mesoporous Multicomponent Nanocomposite Colloidal Spheres: Ideal High-Temperature Stable Model Catalysts. *Angewandte Chemie*, **2011**, 123, 3809-3813	3.6	14
38	Modifications of heterogeneous photocatalysts for hydrocarbon C-H bond activation and selective conversion. *Chemical Communications*, **2020**, 56, 13918-13932	5.8	14
37	NiPt Nanoparticles Anchored onto Hierarchical Nanoporous N-Doped Carbon as an Efficient Catalyst for Hydrogen Generation from Hydrazine Monohydrate. *ACS Applied Materials & Interfaces*, **2020**, 12, 18617-18624	9.5	14
36	Atomic iron on mesoporous N-doped carbon to achieve dehydrogenation reaction at room temperature. *Nano Research*, **2020**, 13, 3075-3081	10	13
35	Atomically Dispersed Ruthenium Species Inside Metal□Organic Frameworks: Combining the High Activity of Atomic Sites and the Molecular Sieving Effect of MOFs. *Angewandte Chemie*, **2019**, 131, 4315-4319	3.6	12
34	Interface-induced formation of onion-like alloy nanocrystals by defects engineering. *Nano Research*, **2016**, 9, 584-592	10	12
33	Anion-exchange-mediated internal electric field for boosting photogenerated carrier separation and utilization. *Nature Communications*, **2021**, 12, 4952	17.4	12
32	Oxygen Vacancy-Rich RuO-CoO Nanohybrids as Improved Electrocatalysts for Li-O Batteries. *ACS Applied Materials & Interfaces*, **2021**, 13, 39239-39247	9.5	11
31	Engineering Lattice Disorder on a Photocatalyst: Photochromic BiOBr Nanosheets Enhance Activation of Aromatic C-H Bonds via Water Oxidation.. *Journal of the American Chemical Society*, **2022**,	16.4	11
30	A Dendrite-Resistant Zinc-Air Battery. *IScience*, **2020**, 23, 101169	6.1	10
29	Preparation of freestanding palladium nanosheets modified with gold nanoparticles at edges. *Nano Research*, **2018**, 11, 4142-4148	10	10
28	Regulating the electronic structure of NiFe layered double hydroxide/reduced graphene oxide by Mn incorporation for high-efficiency oxygen evolution reaction. *Science China Materials*, **2021**, 64, 2729-2738	7.1	10
27	PtAl truncated octahedron nanocrystals for improved formic acid electrooxidation. *Chemical Communications*, **2018**, 54, 3951-3954	5.8	9

26	Synthesis of palladium and palladium sulfide nanocrystals via thermolysis of a Pd□thiolate cluster. *Science China Materials*, **2015**, 58, 936-943	7.1	9
25	Tailoring lattice strain in ultra-fine high-entropy alloys for active and stable methanol oxidation. *Science China Materials*, **2021**, 64, 2454-2466	7.1	9
24	Construction of N, P co-doped carbon frames anchored with Fe single atoms and Fe 2 P nanoparticles as robust coupling catalyst for electrocatalytic oxygen reduction. *Advanced Materials*,2203621	24	9
23	Dopamine polymer derived isolated single-atom site metals/N-doped porous carbon for benzene oxidation. *Chemical Communications*, **2020**, 56, 8916-8919	5.8	8
22	Manganese vacancy-confined single-atom Ag in cryptomelane nanorods for efficient Wacker oxidation of styrene derivatives. *Chemical Science*, **2021**, 12, 6099-6106	9.4	8
21	Transition-Metal Phosphate Colloidal Spheres. *Angewandte Chemie*, **2009**, 121, 4910-4913	3.6	6
20	Reaction: Open Up the Era of Atomically Precise Catalysis. *CheM*, **2019**, 5, 2737-2739	16.2	5
19	Dual Role of Pyridinic-N Doping in Carbon-Coated Ni Nanoparticles for Highly Efficient Electrochemical CO2 Reduction to CO over a Wide Potential Range. *ACS Catalysis*, **2022**, 12, 1364-1374	13.1	5
18	Optimized Self-Templating Synthesis Method for Highly Crystalline Hollow Cu2O Nanoboxes. *Small Methods*, **2020**, 4, 2000521	12.8	5
17	Doping Ruthenium into Metal Matrix for Promoted pH-Universal Hydrogen Evolution.. *Advanced Science*, **2022**, e2200010	13.6	5
16	MOF derived high-density atomic platinum heterogeneous catalyst for C□H bond activation. *Materials Chemistry Frontiers*, **2020**, 4, 1158-1163	7.8	4
15	Large-scale synthesis of nanocrystals of barium titanate and other titanates through solution-phase processes. *Materials Research Bulletin*, **2010**, 45, 1762-1767	5.1	4
14	Distinct Crystal-Facet-Dependent Behaviors for Single-Atom Palladium-on-Ceria Catalysts: Enhanced Stabilization and Catalytic Properties.. *Advanced Materials*, **2022**, e2107721	24	4
13	Interfacial polarization in ultra-small Co3S4□MoS2 heterostructure for efficient electrocatalytic hydrogen evolution reaction. *Applied Materials Today*, **2022**, 26, 101311	6.6	3
12	Isolated Single-Atom Ruthenium Anchored on Beta Zeolite as an Efficient Heterogeneous Catalyst for Styrene Epoxidation. *ChemNanoMat*, **2020**, 6, 1647-1651	3.5	3
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