

Chen Chen

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/431845/publications.pdf>

Version: 2024-02-01

168
papers

31,677
citations

5896

81
h-index

4432

172
g-index

172
all docs

172
docs citations

172
times ranked

21924
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly Crystalline Multimetallic Nanoframes with Three-Dimensional Electrocatalytic Surfaces. <i>Science</i> , 2014, 343, 1339-1343.	12.6	2,376
2	Single-Atom Catalysts: Synthetic Strategies and Electrochemical Applications. <i>Joule</i> , 2018, 2, 1242-1264.	24.0	1,618
3	Core-Shell ZIF-8@ZIF-67-Derived CoP Nanoparticle-Embedded N-Doped Carbon Nanotube Hollow Polyhedron for Efficient Overall Water Splitting. <i>Journal of the American Chemical Society</i> , 2018, 140, 2610-2618.	13.7	1,556
4	Single platinum atoms immobilized on an MXene as an efficient catalyst for the hydrogen evolution reaction. <i>Nature Catalysis</i> , 2018, 1, 985-992.	34.4	1,236
5	Design of Single-Atom Co ^{N₅} Catalytic Site: A Robust Electrocatalyst for CO ₂ Reduction with Nearly 100% CO Selectivity and Remarkable Stability. <i>Journal of the American Chemical Society</i> , 2018, 140, 4218-4221.	13.7	945
6	Defect Effects on TiO ₂ Nanosheets: Stabilizing Single Atomic Site Au and Promoting Catalytic Properties. <i>Advanced Materials</i> , 2018, 30, 1705369.	21.0	751
7	Direct observation of noble metal nanoparticles transforming to thermally stable single atoms. <i>Nature Nanotechnology</i> , 2018, 13, 856-861.	31.5	741
8	Enhanced oxygen reduction with single-atomic-site iron catalysts for a zinc-air battery and hydrogen-air fuel cell. <i>Nature Communications</i> , 2018, 9, 5422.	12.8	696
9	Tuning the Coordination Environment in Single-Atom Catalysts to Achieve Highly Efficient Oxygen Reduction Reactions. <i>Journal of the American Chemical Society</i> , 2019, 141, 20118-20126.	13.7	683
10	Atomic site electrocatalysts for water splitting, oxygen reduction and selective oxidation. <i>Chemical Society Reviews</i> , 2020, 49, 2215-2264.	38.1	582
11	Copper atom-pair catalyst anchored on alloy nanowires for selective and efficient electrochemical reduction of CO ₂ . <i>Nature Chemistry</i> , 2019, 11, 222-228.	13.6	571
12	Hollow N-Doped Carbon Spheres with Isolated Cobalt Single Atomic Sites: Superior Electrocatalysts for Oxygen Reduction. <i>Journal of the American Chemical Society</i> , 2017, 139, 17269-17272.	13.7	556
13	Size Dependence of Structural Metastability in Semiconductor Nanocrystals. <i>Science</i> , 1997, 276, 398-401.	12.6	545
14	Fe Isolated Single Atoms on S, N Codoped Carbon by Copolymer Pyrolysis Strategy for Highly Efficient Oxygen Reduction Reaction. <i>Advanced Materials</i> , 2018, 30, e1800588.	21.0	511
15	Bismuth Single Atoms Resulting from Transformation of Metal-Organic Frameworks and Their Use as Electrocatalysts for CO ₂ Reduction. <i>Journal of the American Chemical Society</i> , 2019, 141, 16569-16573.	13.7	501
16	Coupling N ₂ and CO ₂ in H ₂ O to synthesize urea under ambient conditions. <i>Nature Chemistry</i> , 2020, 12, 717-724.	13.6	485
17	MXene (Ti ₃ C ₂) Vacancy-Confined Single-Atom Catalyst for Efficient Functionalization of CO ₂ . <i>Journal of the American Chemical Society</i> , 2019, 141, 4086-4093.	13.7	479
18	A Bimetallic Zn/Fe Polyphthalocyanine-Derived Single-Atom Fe ^{N₄} Catalytic Site: A Superior Trifunctional Catalyst for Overall Water Splitting and Zn-Air Batteries. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8614-8618.	13.8	455

#	ARTICLE	IF	CITATIONS
19	Iridium single-atom catalyst on nitrogen-doped carbon for formic acid oxidation synthesized using a general host-guest strategy. <i>Nature Chemistry</i> , 2020, 12, 764-772.	13.6	452
20	Rational Design of Single Molybdenum Atoms Anchored on N-Doped Carbon for Effective Hydrogen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 16086-16090.	13.8	431
21	Single Tungsten Atoms Supported on MOF-Derived N-Doped Carbon for Robust Electrochemical Hydrogen Evolution. <i>Advanced Materials</i> , 2018, 30, e1800396.	21.0	427
22	Electronic structure and d-band center control engineering over M-doped CoP (M = Ni, Mn, Fe) hollow polyhedron frames for boosting hydrogen production. <i>Nano Energy</i> , 2019, 56, 411-419.	16.0	421
23	Single-atom Rh/N-doped carbon electrocatalyst for formic acid oxidation. <i>Nature Nanotechnology</i> , 2020, 15, 390-397.	31.5	420
24	Highly efficient nonprecious metal catalyst prepared with metal-organic framework in a continuous carbon nanofibrous network. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 10629-10634.	7.1	359
25	Electronic structure engineering to boost oxygen reduction activity by controlling the coordination of the central metal. <i>Energy and Environmental Science</i> , 2018, 11, 2348-2352.	30.8	336
26	Regulating the coordination structure of single-atom Fe-N _x C _y catalytic sites for benzene oxidation. <i>Nature Communications</i> , 2019, 10, 4290.	12.8	326
27	Single-atomic cobalt sites embedded in hierarchically ordered porous nitrogen-doped carbon as a superior bifunctional electrocatalyst. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 12692-12697.	7.1	325
28	A Versatile Bottom-Up Assembly Approach to Colloidal Spheres from Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 6650-6653.	13.8	310
29	Constructing NiCo/Fe ₃ O ₄ Heteroparticles within MOF-74 for Efficient Oxygen Evolution Reactions. <i>Journal of the American Chemical Society</i> , 2018, 140, 15336-15341.	13.7	310
30	High-Concentration Single Atomic Pt Sites on Hollow Cu _x S for Selective O ₂ Reduction to H ₂ O ₂ in Acid Solution. <i>Chem</i> , 2019, 5, 2099-2110.	11.7	279
31	Carbon nitride supported Fe ₂ cluster catalysts with superior performance for alkene epoxidation. <i>Nature Communications</i> , 2018, 9, 2353.	12.8	278
32	Construction of CoP/NiCoP Nanotadpoles Heterojunction Interface for Wide pH Hydrogen Evolution Electrocatalysis and Supercapacitor. <i>Advanced Energy Materials</i> , 2019, 9, 1901213.	19.5	275
33	A photochromic composite with enhanced carrier separation for the photocatalytic activation of benzylic C-H bonds in toluene. <i>Nature Catalysis</i> , 2018, 1, 704-710.	34.4	273
34	A Polymer Encapsulation Strategy to Synthesize Porous Nitrogen-Doped Carbon Nanosphere-Supported Metal Isolated Single-Atomic Site Catalysts. <i>Advanced Materials</i> , 2018, 30, e1706508.	21.0	266
35	Accelerating water dissociation kinetics by isolating cobalt atoms into ruthenium lattice. <i>Nature Communications</i> , 2018, 9, 4958.	12.8	264
36	Synergistically Interactive Pyridinic N-MoP Sites: Identified Active Centers for Enhanced Hydrogen Evolution in Alkaline Solution. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8982-8990.	13.8	263

#	ARTICLE	IF	CITATIONS
37	Confined Pyrolysis within Metal-Organic Frameworks To Form Uniform Ru ₃ Clusters for Efficient Oxidation of Alcohols. <i>Journal of the American Chemical Society</i> , 2017, 139, 9795-9798.	13.7	258
38	Cation vacancy stabilization of single-atomic-site Pt ₁ /Ni(OH) _x catalyst for diboration of alkynes and alkenes. <i>Nature Communications</i> , 2018, 9, 1002.	12.8	255
39	Three-dimensional open nano-netcage electrocatalysts for efficient pH-universal overall water splitting. <i>Nature Communications</i> , 2019, 10, 4875.	12.8	253
40	Anisotropic phase segregation and migration of Pt in nanocrystals en route to nanoframe catalysts. <i>Nature Materials</i> , 2016, 15, 1188-1194.	27.5	244
41	Functionalization of Hollow Nanomaterials for Catalytic Applications: Nanoreactor Construction. <i>Advanced Materials</i> , 2019, 31, e1800426.	21.0	239
42	Structural Regulation with Atomic-Level Precision: From Single-Atomic Site to Diatomic and Atomic Interface Catalysis. <i>Matter</i> , 2020, 2, 78-110.	10.0	221
43	Discovering Partially Charged Single-Atom Pt for Enhanced Anti-Markovnikov Alkene Hydrosilylation. <i>Journal of the American Chemical Society</i> , 2018, 140, 7407-7410.	13.7	218
44	Sophisticated Construction of Au Islands on Pt-Ni: An Ideal Trimetallic Nanoframe Catalyst. <i>Journal of the American Chemical Society</i> , 2014, 136, 11594-11597.	13.7	216
45	Evolution of Nanoporous Pt-Fe Alloy Nanowires by Dealloying and their Catalytic Property for Oxygen Reduction Reaction. <i>Advanced Functional Materials</i> , 2011, 21, 3357-3362.	14.9	211
46	A cocoon silk chemistry strategy to ultrathin N-doped carbon nanosheet with metal single-site catalysts. <i>Nature Communications</i> , 2018, 9, 3861.	12.8	210
47	Quantitative Study of Charge Carrier Dynamics in Well-Defined WO ₃ Nanowires and Nanosheets: Insight into the Crystal Facet Effect in Photocatalysis. <i>Journal of the American Chemical Society</i> , 2018, 140, 9078-9082.	13.7	209
48	Temperature-Controlled Selectivity of Hydrogenation and Hydrodeoxygenation in the Conversion of Biomass Molecule by the Ru ₁ /mpg-C ₃ N ₄ Catalyst. <i>Journal of the American Chemical Society</i> , 2018, 140, 11161-11164.	13.7	199
49	Atomic Structure of Pt ₃ Ni Nanoframe Electrocatalysts by <i>in Situ</i> X-ray Absorption Spectroscopy. <i>Journal of the American Chemical Society</i> , 2015, 137, 15817-15824.	13.7	197
50	Strain Engineering to Enhance the Electrooxidation Performance of Atomic-Layer Pt on Intermetallic Pt ₃ Ga. <i>Journal of the American Chemical Society</i> , 2018, 140, 2773-2776.	13.7	193
51	A General Strategy for Fabricating Isolated Single Metal Atomic Site Catalysts in Y Zeolite. <i>Journal of the American Chemical Society</i> , 2019, 141, 9305-9311.	13.7	191
52	Amorphous nickel boride membrane on a platinum-nickel alloy surface for enhanced oxygen reduction reaction. <i>Nature Communications</i> , 2016, 7, 12362.	12.8	190
53	Tandem Catalysis for CO ₂ Hydrogenation to C ₂ -C ₄ Hydrocarbons. <i>Nano Letters</i> , 2017, 17, 3798-3802.	9.1	183
54	Hierarchical trimetallic Co-Ni-Fe oxides derived from core-shell structured metal-organic frameworks for highly efficient oxygen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2021, 287, 119953.	20.2	175

#	ARTICLE	IF	CITATIONS
55	Ordered Porous Nitrogen-Doped Carbon Matrix with Atomically Dispersed Cobalt Sites as an Efficient Catalyst for Dehydrogenation and Transfer Hydrogenation of N-Heterocycles. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 11262-11266.	13.8	165
56	Deciphering the alternating synergy between interlayer Pt single-atom and NiFe layered double hydroxide for overall water splitting. <i>Energy and Environmental Science</i> , 2021, 14, 6428-6440.	30.8	164
57	Atomically Dispersed Ruthenium Species Inside Metal-Organic Frameworks: Combining the High Activity of Atomic Sites and the Molecular Sieving Effect of MOFs. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4271-4275.	13.8	162
58	Cobalt Single Atom Incorporated in Ruthenium Oxide Sphere: A Robust Bifunctional Electrocatalyst for HER and OER. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	162
59	Solvothermal synthesis of lithium iron phosphate nanoplates. <i>Journal of Materials Chemistry</i> , 2011, 21, 9994.	6.7	148
60	MOF-Confined Sub-2 nm Atomically Ordered Intermetallic PdZn Nanoparticles as High-Performance Catalysts for Selective Hydrogenation of Acetylene. <i>Advanced Materials</i> , 2018, 30, e1801878.	21.0	133
61	Constructing FeN ₄ /graphitic nitrogen atomic interface for high-efficiency electrochemical CO ₂ reduction over a broad potential window. <i>CheM</i> , 2021, 7, 1297-1307.	11.7	133
62	One-Pot Pyrolysis to N-Doped Graphene with High-Density Pt Single Atomic Sites as Heterogeneous Catalyst for Alkene Hydrosilylation. <i>ACS Catalysis</i> , 2018, 8, 10004-10011.	11.2	121
63	Isolating contiguous Pt atoms and forming Pt-Zn intermetallic nanoparticles to regulate selectivity in 4-nitrophenylacetylene hydrogenation. <i>Nature Communications</i> , 2019, 10, 3787.	12.8	119
64	Fe ₁ N ₄ -O ₁ site with axial Fe-O coordination for highly selective CO ₂ reduction over a wide potential range. <i>Energy and Environmental Science</i> , 2021, 14, 3430-3437.	30.8	119
65	Porphyrin-like Fe-N ₄ sites with sulfur adjustment on hierarchical porous carbon for different rate-determining steps in oxygen reduction reaction. <i>Nano Research</i> , 2018, 11, 6260-6269.	10.4	118
66	One-step accurate synthesis of shell controllable CoFe ₂ O ₄ hollow microspheres as high-performance electrode materials in supercapacitor. <i>Nano Research</i> , 2016, 9, 2026-2033.	10.4	117
67	Atomically dispersed Ni-Ru-P interface sites for high-efficiency pH-universal electrocatalysis of hydrogen evolution. <i>Nano Energy</i> , 2021, 80, 105467.	16.0	114
68	Atomic Co/Ni dual sites with N/P-coordination as bifunctional oxygen electrocatalyst for rechargeable zinc-air batteries. <i>Nano Research</i> , 2021, 14, 3482-3488.	10.4	113
69	Single-Site Au ^I Catalyst for Silane Oxidation with Water. <i>Advanced Materials</i> , 2018, 30, 1704720.	21.0	112
70	Scale-Up Biomass Pathway to Cobalt Single-Site Catalysts Anchored on N-Doped Porous Carbon Nanobelt with Ultrahigh Surface Area. <i>Advanced Functional Materials</i> , 2018, 28, 1802167.	14.9	112
71	Atomically dispersed Fe atoms anchored on COF-derived N-doped carbon nanospheres as efficient multi-functional catalysts. <i>Chemical Science</i> , 2020, 11, 786-790.	7.4	110
72	Systematic Synthesis of Lanthanide Phosphate Nanocrystals. <i>Chemistry - A European Journal</i> , 2007, 13, 7708-7714.	3.3	109

#	ARTICLE	IF	CITATIONS
73	Monoclinic Tungsten Oxide with {100} Facet Orientation and Tuned Electronic Band Structure for Enhanced Photocatalytic Oxidations. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 10367-10374.	8.0	106
74	Cobalt Single Atom Incorporated in Ruthenium Oxide Sphere: A Robust Bifunctional Electrocatalyst for HER and OER. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	105
75	Mesoporous Multicomponent Nanocomposite Colloidal Spheres: Ideal High-Temperature Stable Model Catalysts. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 3725-3729.	13.8	101
76	Convenient fabrication of BiOBr ultrathin nanosheets with rich oxygen vacancies for photocatalytic selective oxidation of secondary amines. <i>Nano Research</i> , 2019, 12, 1625-1630.	10.4	96
77	Engineering Lattice Disorder on a Photocatalyst: Photochromic BiOBr Nanosheets Enhance Activation of Aromatic C-H Bonds via Water Oxidation. <i>Journal of the American Chemical Society</i> , 2022, 144, 3386-3397.	13.7	96
78	Interfacial effects in supported catalysts for electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2019, 7, 23432-23450.	10.3	94
79	Revealing the Active Species for Aerobic Alcohol Oxidation by Using Uniform Supported Palladium Catalysts. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 4642-4646.	13.8	93
80	Construction of N, P Co-Doped Carbon Frames Anchored with Fe Single Atoms and Fe ₂ P Nanoparticles as a Robust Coupling Catalyst for Electrocatalytic Oxygen Reduction. <i>Advanced Materials</i> , 2022, 34, .	21.0	93
81	Tuning Polarity of Cu-O Bond in Heterogeneous Cu Catalyst to Promote Additive-free Hydroboration of Alkynes. <i>CheM</i> , 2020, 6, 725-737.	11.7	87
82	Graphdiyne/Graphene Heterostructure: A Universal 2D Scaffold Anchoring Monodispersed Transition-Metal Phthalocyanines for Selective and Durable CO ₂ Electroreduction. <i>Journal of the American Chemical Society</i> , 2021, 143, 8679-8688.	13.7	87
83	Atomically dispersed Ni in cadmium-zinc sulfide quantum dots for high-performance visible-light photocatalytic hydrogen production. <i>Science Advances</i> , 2020, 6, eaaz8447.	10.3	83
84	Insights into the Mechanism of Tandem Alkene Hydroformylation over a Nanostructured Catalyst with Multiple Interfaces. <i>Journal of the American Chemical Society</i> , 2016, 138, 11568-11574.	13.7	82
85	Transition-Metal Phosphate Colloidal Spheres. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 4816-4819.	13.8	79
86	Distinct Crystal-Facet-Dependent Behaviors for Single-Atom Palladium-On-Ceria Catalysts: Enhanced Stabilization and Catalytic Properties. <i>Advanced Materials</i> , 2022, 34, e2107721.	21.0	78
87	Electrocatalyst engineering and structure-activity relationship in hydrogen evolution reaction: From nanostructures to single atoms. <i>Science China Materials</i> , 2020, 63, 921-948.	6.3	76
88	Single-Atom Au ^I -N ₃ Site for Acetylene Hydrochlorination Reaction. <i>ACS Catalysis</i> , 2020, 10, 1865-1870.	11.2	76
89	Isolated Iron Single-Atomic Site-Catalyzed Chemoselective Transfer Hydrogenation of Nitroarenes to Arylamines. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 33819-33824.	8.0	74
90	Ir-Cu nanoframes: one-pot synthesis and efficient electrocatalysts for oxygen evolution reaction. <i>Chemical Communications</i> , 2016, 52, 3793-3796.	4.1	73

#	ARTICLE	IF	CITATIONS
91	Dual Role of Pyridinic-N Doping in Carbon-Coated Ni Nanoparticles for Highly Efficient Electrochemical CO ₂ Reduction to CO over a Wide Potential Range. ACS Catalysis, 2022, 12, 1364-1374.	11.2	73
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.	8.0	71
93	Interface Engineering of Partially Phosphidated Co@Co@P@NPCNTs for Highly Enhanced Electrochemical Overall Water Splitting. Small, 2020, 16, e2002124.	10.0	71
94	Porous organic cage stabilised palladium nanoparticles: efficient heterogeneous catalysts for carbonylation reaction of aryl halides. Chemical Communications, 2018, 54, 2796-2799.	4.1	70
95	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.	20.2	70
96	Fabricating Pd isolated single atom sites on C ₃ N ₄ /rGO for heterogenization of homogeneous catalysis. Nano Research, 2020, 13, 947-951.	10.4	65
97	Preparation of hexagonal ultrathin WO ₃ nano-ribbons and their electrochemical performance as an anode material in lithium ion batteries. Nano Research, 2016, 9, 435-441.	10.4	64
98	PdAg bimetallic electrocatalyst for highly selective reduction of CO ₂ with low COOH* formation energy and facile CO desorption. Nano Research, 2019, 12, 2866-2871.	10.4	61
99	Nitrogen-coordinated cobalt nanocrystals for oxidative dehydrogenation and hydrogenation of N-heterocycles. Chemical Science, 2019, 10, 5345-5352.	7.4	60
100	Two-Dimensional SnO ₂ Nanosheets for Efficient Carbon Dioxide Electroreduction to Formate. ACS Sustainable Chemistry and Engineering, 2020, 8, 4975-4982.	6.7	59
101	Self-assembly of uniform hexagonal yttrium phosphate nanocrystals. Chemical Communications, 2006, 3522.	4.1	57
102	Ultrathin Pt@Zn Nanowires: High-Performance Catalysts for Electrooxidation of Methanol and Formic Acid. ACS Sustainable Chemistry and Engineering, 2018, 6, 77-81.	6.7	52
103	A Bimetallic Zn/Fe Polyphthalocyanine-Derived Single-Atom Fe ₄ Catalytic Site: A Superior Trifunctional Catalyst for Overall Water Splitting and Zn-Air Batteries. Angewandte Chemie, 2018, 130, 8750-8754.	2.0	51
104	Sub-nm ruthenium cluster as an efficient and robust catalyst for decomposition and synthesis of ammonia: Break the "size shackles". Nano Research, 2018, 11, 4774-4785.	10.4	49
105	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.	10.4	48
106	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.	4.1	46
107	Porous ⁵⁷ Fe ₂ O ₃ nanoparticle decorated with atomically dispersed platinum: Study on atomic site structural change and gas sensor activity evolution. Nano Research, 2021, 14, 1435-1442.	10.4	46
108	Free-standing palladium-nickel alloy wavy nanosheets. Nano Research, 2016, 9, 2244-2250.	10.4	45

#	ARTICLE	IF	CITATIONS
109	Synergistically Interactive Pyridinicâ€”MoP Sites: Identified Active Centers for Enhanced Hydrogen Evolution in Alkaline Solution. <i>Angewandte Chemie</i> , 2020, 132, 9067-9075.	2.0	45
110	Anion-exchange-mediated internal electric field for boosting photogenerated carrier separation and utilization. <i>Nature Communications</i> , 2021, 12, 4952.	12.8	45
111	Partial positively charged Pt in Pt/MgAl ₂ O ₄ for enhanced dehydrogenation activity. <i>Applied Catalysis B: Environmental</i> , 2021, 288, 119996.	20.2	44
112	Oxygen Vacancy-Rich RuO ₂ â€”Co ₃ O ₄ Nanohybrids as Improved Electrocatalysts for Liâ€”O ₂ Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 39239-39247.	8.0	44
113	Microwave-assisted synthesis of layer-by-layer ultra-large and thin NiAl-LDH/RGO nanocomposites and their excellent performance as electrodes. <i>Science China Materials</i> , 2015, 58, 944-952.	6.3	43
114	Preparation and electrochemical characterization of ultrathin WO ₃ â€”x/C nanosheets as anode materials in lithium ion batteries. <i>Nano Research</i> , 2017, 10, 1903-1911.	10.4	43
115	Tailoring lattice strain in ultra-fine high-entropy alloys for active and stable methanol oxidation. <i>Science China Materials</i> , 2021, 64, 2454-2466.	6.3	43
116	Synthesis of PtCo ₃ polyhedral nanoparticles and evolution to Pt ₃ Co nanoframes. <i>Surface Science</i> , 2016, 648, 328-332.	1.9	42
117	Two-dimensional SnO ₂ /graphene heterostructures for highly reversible electrochemical lithium storage. <i>Science China Materials</i> , 2018, 61, 1527-1535.	6.3	42
118	NiPt Nanoparticles Anchored onto Hierarchical Nanoporous N-Doped Carbon as an Efficient Catalyst for Hydrogen Generation from Hydrazine Monohydrate. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 18617-18624.	8.0	38
119	Size structureâ€”catalytic performance correlation of supported Ni/MCF-17 catalysts for CO _x -free hydrogen production. <i>Chemical Communications</i> , 2018, 54, 6364-6367.	4.1	36
120	Ultra-thin Cu ₂ S nanosheets: effective cocatalysts for photocatalytic hydrogen production. <i>Chemical Communications</i> , 2015, 51, 13305-13308.	4.1	35
121	Pd-dispersed CuS hetero-nanoplates for selective hydrogenation of phenylacetylene. <i>Nano Research</i> , 2016, 9, 1209-1219.	10.4	35
122	One-pot synthesis of monodisperse CeO ₂ nanocrystals and superlattices. <i>Chemical Communications</i> , 2008, , 3741.	4.1	34
123	Super-hydrophobic yolkâ€”shell nanostructure with enhanced catalytic performance in the reduction of hydrophobic nitroaromatic compounds. <i>Chemical Communications</i> , 2013, 49, 9591.	4.1	33
124	Engineering a light-weight, thin and dual-functional interlayer as â€œpolysulfides sieveâ€”capable of synergistic adsorption for high-performance lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , 2020, 383, 123163.	12.7	33
125	Modifications of heterogeneous photocatalysts for hydrocarbon Câ€”H bond activation and selective conversion. <i>Chemical Communications</i> , 2020, 56, 13918-13932.	4.1	32
126	Gold nanoparticles confined in the interconnected carbon foams with high temperature stability. <i>Chemical Communications</i> , 2012, 48, 10404.	4.1	31

#	ARTICLE	IF	CITATIONS
127	Topological self-template directed synthesis of multi-shelled intermetallic Ni ₃ Ga hollow microspheres for the selective hydrogenation of alkyne. <i>Chemical Science</i> , 2019, 10, 614-619.	7.4	31
128	An efficient, controllable and facile two-step synthesis strategy: Fe ₃ O ₄ @RGO composites with various Fe ₃ O ₄ nanoparticles and their supercapacitance properties. <i>Nano Research</i> , 2017, 10, 3303-3313.	10.4	29
129	Revealing the Active Species for Aerobic Alcohol Oxidation by Using Uniform Supported Palladium Catalysts. <i>Angewandte Chemie</i> , 2018, 130, 4732-4736.	2.0	29
130	Doping Ruthenium into Metal Matrix for Promoted pH-Universal Hydrogen Evolution. <i>Advanced Science</i> , 2022, 9, e2200010.	11.2	29
131	Regulating the electronic structure of NiFe layered double hydroxide/reduced graphene oxide by Mn incorporation for high-efficiency oxygen evolution reaction. <i>Science China Materials</i> , 2021, 64, 2729-2738.	6.3	28
132	Atomically Dispersed Co ₃ C ₁ TeN ₁ C ₃ Diatomic Sites Anchored in N-Doped Carbon as Efficient Bifunctional Catalyst for Synergistic Electrocatalytic Hydrogen Evolution and Oxygen Reduction. <i>Small</i> , 2022, 18, .	10.0	28
133	Reaction environment self-modification on low-coordination Ni ²⁺ octahedra atomic interface for superior electrocatalytic overall water splitting. <i>Nano Research</i> , 2020, 13, 3068-3074.	10.4	27
134	Synergistic effect of bimetallic PdAu nanocrystals on oxidative alkyne homocoupling. <i>Chemical Communications</i> , 2018, 54, 13155-13158.	4.1	26
135	Ordered two-dimensional porous Co ₃ O ₄ nanosheets as electrocatalysts for rechargeable Li-O ₂ batteries. <i>Nano Research</i> , 2019, 12, 299-302.	10.4	26
136	Atomically Dispersed Ruthenium Species Inside Metal-Organic Frameworks: Combining the High Activity of Atomic Sites and the Molecular Sieving Effect of MOFs. <i>Angewandte Chemie</i> , 2019, 131, 4315-4319.	2.0	25
137	Ordered Porous Nitrogen-Doped Carbon Matrix with Atomically Dispersed Cobalt Sites as an Efficient Catalyst for Dehydrogenation and Transfer Hydrogenation of N-Heterocycles. <i>Angewandte Chemie</i> , 2018, 130, 11432-11436.	2.0	24
138	Seed-mediated synthesis of hexameric octahedral PtPdCu nanocrystals with high electrocatalytic performance. <i>Chemical Communications</i> , 2015, 51, 15406-15409.	4.1	23
139	Nano PdAu Bimetallic Alloy as an Effective Catalyst for the Buchwald-Hartwig Reaction. <i>Chemistry - an Asian Journal</i> , 2016, 11, 351-355.	3.3	23
140	The design of hollow Pd ₃ O ₄ nano-dodecahedrons with moderate catalytic activity for Li-O ₂ batteries. <i>Chemical Communications</i> , 2019, 55, 12683-12686.	4.1	23
141	Atomic iron on mesoporous N-doped carbon to achieve dehydrogenation reaction at room temperature. <i>Nano Research</i> , 2020, 13, 3075-3081.	10.4	23
142	Isolated Single-Atom Ruthenium Anchored on Beta Zeolite as an Efficient Heterogeneous Catalyst for Styrene Epoxidation. <i>ChemNanoMat</i> , 2020, 6, 1647-1651.	2.8	22
143	Manganese vacancy-confined single-atom Ag in cryptomelane nanorods for efficient Wacker oxidation of styrene derivatives. <i>Chemical Science</i> , 2021, 12, 6099-6106.	7.4	22
144	Interfacial polarization in ultra-small Co ₃ S ₄ ~MoS ₂ heterostructure for efficient electrocatalytic hydrogen evolution reaction. <i>Applied Materials Today</i> , 2022, 26, 101311.	4.3	21

#	ARTICLE	IF	CITATIONS
145	Facile synthesis of CoNi _x nanoparticles embedded in nitrogen-carbon frameworks for highly efficient electrocatalytic oxygen evolution. <i>Chemical Communications</i> , 2017, 53, 12177-12180.	4.1	20
146	The facile synthesis of core-shell PtCu nanoparticles with superior electrocatalytic activity and stability in the hydrogen evolution reaction. <i>RSC Advances</i> , 2021, 11, 26326-26335.	3.6	20
147	Au/CuSiO ₃ nanotubes: High-performance robust catalysts for selective oxidation of ethanol to acetaldehyde. <i>Nano Research</i> , 2016, 9, 2681-2686.	10.4	19
148	MOF derived high-density atomic platinum heterogeneous catalyst for C-H bond activation. <i>Materials Chemistry Frontiers</i> , 2020, 4, 1158-1163.	5.9	19
149	Selective hydrogenation of N-heterocyclic compounds over rhodium-copper bimetallic nanocrystals under ambient conditions. <i>Nano Research</i> , 2019, 12, 1631-1634.	10.4	18
150	Dopamine polymer derived isolated single-atom site metals/N-doped porous carbon for benzene oxidation. <i>Chemical Communications</i> , 2020, 56, 8916-8919.	4.1	18
151	Atomically dispersed Ni anchored on polymer-derived mesh-like N-doped carbon nanofibers as an efficient CO ₂ electrocatalytic reduction catalyst. <i>Nano Research</i> , 2022, 15, 3959-3963.	10.4	18
152	A Dendrite-Resistant Zinc-Air Battery. <i>IScience</i> , 2020, 23, 101169.	4.1	17
153	Factors Affecting the Catalytic Performance of Nano-catalysts. <i>Chinese Journal of Chemistry</i> , 2022, 40, 515-523.	4.9	16
154	Interface-induced formation of onion-like alloy nanocrystals by defects engineering. <i>Nano Research</i> , 2016, 9, 584-592.	10.4	15
155	Preparation of freestanding palladium nanosheets modified with gold nanoparticles at edges. <i>Nano Research</i> , 2018, 11, 4142-4148.	10.4	15
156	Supported Ni@Ni ₂ P Core-Shell Nanotube Arrays on Ni Foam for Hydrazine Electrooxidation. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 4564-4570.	6.7	14
157	Hierarchical Ni/Ni(OH) ₂ -NiCo ₂ O ₄ Supported on Ni Foam as Efficient Bifunctional Electrocatalysts for Water Splitting. <i>Journal of Physical Chemistry C</i> , 2022, 126, 5493-5501.	3.1	14
158	PtAl truncated octahedron nanocrystals for improved formic acid electrooxidation. <i>Chemical Communications</i> , 2018, 54, 3951-3954.	4.1	12
159	Synthesis of palladium and palladium sulfide nanocrystals via thermolysis of a Pd-thiolate cluster. <i>Science China Materials</i> , 2015, 58, 936-943.	6.3	11
160	Role of percentage of {0 0 1} crystal facets in TiO ₂ supports toward the water-gas shift reaction over Au-TiO ₂ catalysts. <i>Chemical Engineering Journal</i> , 2022, 446, 137010.	12.7	11
161	Reaction: Open Up the Era of Atomically Precise Catalysis. <i>CheM</i> , 2019, 5, 2737-2739.	11.7	10
162	Optimized Self-templating Synthesis Method for Highly Crystalline Hollow Cu ₂ O Nanoboxes. <i>Small Methods</i> , 2020, 4, 2000521.	8.6	10

#	ARTICLE	IF	CITATIONS
163	Synergetic effect of nitrogen-doped carbon catalysts for high-efficiency electrochemical CO ₂ reduction. Chinese Journal of Catalysis, 2022, 43, 1697-1702.	14.0	10
164	Rational design and precise manipulation of nano-catalysts. Chinese Journal of Catalysis, 2022, 43, 898-912.	14.0	7
165	Combination of Fe(II)-induced oxygen deficiency and metal doping strategy for construction of high efficiency water oxidation electrocatalysts under industrial-scale current density. Chemical Engineering Journal, 2022, 435, 135048.	12.7	6
166	Large-scale synthesis of nanocrystals of barium titanate and other titanates through solution-phase processes. Materials Research Bulletin, 2010, 45, 1762-1767.	5.2	4
167	A general strategy to prepare atomically dispersed biomimetic catalysts based on host-guest chemistry. Chemical Communications, 2021, 57, 1895-1898.	4.1	2
168	Self-assembled mesostructured Co _{0.5} Fe _{2.5} O ₄ nanoparticle superstructures for highly efficient oxygen evolution. Journal of Colloid and Interface Science, 2021, 593, 125-132.	9.4	2