Jie Zeng

List of Publications by Year in descending order

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229	25,409	4960 84	6996 154
papers	citations	h-index	g-index

253	253	253	26252
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Controlling the Synthesis and Assembly of Silver Nanostructures for Plasmonic Applications. Chemical Reviews, 2011, 111, 3669-3712.	47.7	2,410
2	A Comparison Study of the Catalytic Properties of Au-Based Nanocages, Nanoboxes, and Nanoparticles. Nano Letters, 2010, 10, 30-35.	9.1	772
3	Achieving a Recordâ€High Yield Rate of 120.9 for N₂ Electrochemical Reduction over Ru Singleâ€Atom Catalysts. Advanced Materials, 2018, 30, e1803498.	21.0	736
4	Large-Scale and Highly Selective CO2 Electrocatalytic Reduction on Nickel Single-Atom Catalyst. Joule, 2019, 3, 265-278.	24.0	663
5	Synergetic interaction between neighbouring platinum monomers in CO2 hydrogenation. Nature Nanotechnology, 2018, 13, 411-417.	31.5	584
6	High performance platinum single atom electrocatalyst for oxygen reduction reaction. Nature Communications, 2017, 8, 15938.	12.8	569
7	Oxygen Vacancies in ZnO Nanosheets Enhance CO₂ Electrochemical Reduction to CO. Angewandte Chemie - International Edition, 2018, 57, 6054-6059.	13.8	564
8	Advanced Electrocatalysts with Single-Metal-Atom Active Sites. Chemical Reviews, 2020, 120, 12217-12314.	47.7	563
9	Au@Ag Coreâ^'Shell Nanocubes with Finely Tuned and Well-Controlled Sizes, Shell Thicknesses, and Optical Properties. ACS Nano, 2010, 4, 6725-6734.	14.6	511
10	Controlling the Shapes of Silver Nanocrystals with Different Capping Agents. Journal of the American Chemical Society, 2010, 132, 8552-8553.	13.7	412
11	Shapeâ€Controlled Synthesis of Copper Nanocrystals in an Aqueous Solution with Glucose as a Reducing Agent and Hexadecylamine as a Capping Agent. Angewandte Chemie - International Edition, 2011, 50, 10560-10564.	13.8	410
12	Synthesis of Anatase TiO₂ Nanocrystals with Exposed {001} Facets. Nano Letters, 2009, 9, 2455-2459.	9.1	380
13	Seed-Mediated Synthesis of Ag Nanocubes with Controllable Edge Lengths in the Range of 30â^'200 nm and Comparison of Their Optical Properties. Journal of the American Chemical Society, 2010, 132, 11372-11378.	13.7	380
14	Engineering electrocatalytic activity in nanosized perovskite cobaltite through surface spin-state transition. Nature Communications, 2016, 7, 11510.	12.8	316
15	Octahedral Pd@Pt_{1.8}Ni Coreâ€“Shell Nanocrystals with Ultrathin PtNi Alloy Shells as Active Catalysts for Oxygen Reduction Reaction. Journal of the American Chemical Society, 2015, 137, 2804-2807.	13.7	310
16	Understanding of Strain Effects in the Electrochemical Reduction of CO₂: Using Pd Nanostructures as an Ideal Platform. Angewandte Chemie - International Edition, 2017, 56, 3594-3598.	13.8	303
17	Enhancement of Radiation Cytotoxicity in Breastâ€Cancer Cells by Localized Attachment of Gold Nanoparticles. Small, 2008, 4, 1537-1543.	10.0	295
18	Facile synthesis of pentacle goldâ€“copper alloy nanocrystals and their plasmonic and catalytic properties. Nature Communications, 2014, 5, 4327.	12.8	294

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19	A Plasmonâ€Assisted Optofluidic (PAOF) System for Measuring the Photothermal Conversion Efficiencies of Gold Nanostructures and Controlling an Electrical Switch. Angewandte Chemie - International Edition, 2013, 52, 4169-4173.	13.8	287
20	A New Nanobiocatalytic System Based on Allosteric Effect with Dramatically Enhanced Enzymatic Performance. Journal of the American Chemical Society, 2013, 135, 1272-1275.	13.7	284
21	Copper-catalysed exclusive CO2 to pure formic acid conversion via single-atom alloying. Nature Nanotechnology, 2021, 16, 1386-1393.	31.5	282
22	Atomic-level insights in optimizing reaction paths for hydroformylation reaction over Rh/CoO single-atom catalyst. Nature Communications, 2016, 7, 14036.	12.8	281
23	Quantitative Analysis of the Role Played by Poly(vinylpyrrolidone) in Seed-Mediated Growth of Ag Nanocrystals. Journal of the American Chemical Society, 2012, 134, 1793-1801.	13.7	277
24	Achieving Remarkable Activity and Durability toward Oxygen Reduction Reaction Based on Ultrathin Rh-Doped Pt Nanowires. Journal of the American Chemical Society, 2017, 139, 8152-8159.	13.7	265
25	Dramatically Enhanced Photoresponse of Reduced Graphene Oxide with Linker-Free Anchored CdSe Nanoparticles. ACS Nano, 2010, 4, 3033-3038.	14.6	258
26	Comparative Study of Aerogels Obtained from Differently Prepared Nanocellulose Fibers. ChemSusChem, 2014, 7, 154-161.	6.8	258
27	Electrochemical deposition as a universal route for fabricating single-atom catalysts. Nature Communications, 2020, 11, 1215.	12.8	254
28	Doping regulation in transition metal compounds for electrocatalysis. Chemical Society Reviews, 2021, 50, 9817-9844.	38.1	245
29	Aqueousâ€Phase Synthesis of Pt/CeO₂ Hybrid Nanostructures and Their Catalytic Properties. Advanced Materials, 2010, 22, 5188-5192.	21.0	235
30	Chemical transformations of nanostructured materials. Nano Today, 2011, 6, 186-203.	11.9	230
31	Molybdenum Disulfideâ€“Black Phosphorus Hybrid Nanosheets as a Superior Catalyst for Electrochemical Hydrogen Evolution. Nano Letters, 2017, 17, 4311-4316.	9.1	211
32	Controlling the Nucleation and Growth of Silver on Palladium Nanocubes by Manipulating the Reaction Kinetics. Angewandte Chemie - International Edition, 2012, 51, 2354-2358.	13.8	209
33	Oxidative Etching and Its Role in Manipulating the Nucleation and Growth of Noble-Metal Nanocrystals. Chemistry of Materials, 2014, 26, 22-33.	6.7	203
34	Successive Deposition of Silver on Silver Nanoplates: Lateral versus Vertical Growth. Angewandte Chemie - International Edition, 2011, 50, 244-249.	13.8	200
35	Conductive Tungsten Oxide Nanosheets for Highly Efficient Hydrogen Evolution. Nano Letters, 2017, 17, 7968-7973.	9.1	195
36	Controlling the Morphology of Rhodium Nanocrystals by Manipulating the Growth Kinetics with a Syringe Pump. Nano Letters, 2011, 11, 898-903.	9.1	190

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37	Nickel Doping in Atomically Thin Tin Disulfide Nanosheets Enables Highly Efficient CO₂ Reduction. Angewandte Chemie - International Edition, 2018, 57, 10954-10958.	13.8	186
38	Incorporating nitrogen atoms into cobalt nanosheets as a strategy to boost catalytic activity toward CO2 hydrogenation. Nature Energy, 2017, 2, 869-876.	39.5	179
39	Silver Nanocrystals with Concave Surfaces and Their Optical and Surfaceâ€Enhanced Raman Scattering Properties. Angewandte Chemie - International Edition, 2011, 50, 12542-12546.	13.8	177
40	Supported Rhodium Catalysts for Ammoniaâ€“Borane Hydrolysis: Dependence of the Catalytic Activity on the Highest Occupied State of the Single Rhodium Atoms. Angewandte Chemie - International Edition, 2017, 56, 4712-4718.	13.8	173
41	Kinetically Controlled Overgrowth of Ag or Au on Pd Nanocrystal Seeds: From Hybrid Dimers to Nonconcentric and Concentric Bimetallic Nanocrystals. Journal of the American Chemical Society, 2012, 134, 15822-15831.	13.7	172
42	Engineering the Electrical Conductivity of Lamellar Silverâ€Doped Cobalt(II) Selenide Nanobelts for Enhanced Oxygen Evolution. Angewandte Chemie - International Edition, 2017, 56, 328-332.	13.8	172
43	Recent Developments in Shape-Controlled Synthesis of Silver Nanocrystals. Journal of Physical Chemistry C, 2012, 116, 21647-21656.	3.1	166
44	Pt₃Co Octapods as Superior Catalysts of CO₂ Hydrogenation. Angewandte Chemie - International Edition, 2016, 55, 9548-9552.	13.8	162
45	Synergy between Palladium Single Atoms and Nanoparticles via Hydrogen Spillover for Enhancing CO₂ Photoreduction to CH₄. Advanced Materials, 2022, 34, e2200057.	21.0	162
46	One-Nanometer-Thick PtNiRh Trimetallic Nanowires with Enhanced Oxygen Reduction Electrocatalysis in Acid Media: Integrating Multiple Advantages into One Catalyst. Journal of the American Chemical Society, 2018, 140, 16159-16167.	13.7	160
47	Contributions of distinct gold species to catalytic reactivity for carbon monoxide oxidation. Nature Communications, 2016, 7, 13481.	12.8	158
48	Upcycling CO2 into energy-rich long-chain compounds via electrochemical and metabolic engineering. Nature Catalysis, 2022, 5, 388-396.	34.4	153
49	Sizeâ€Controlled Synthesis of Platinumâ€“Copper Hierarchical Trigonal Bipyramid Nanoframes. Angewandte Chemie - International Edition, 2015, 54, 108-113.	13.8	151
50	Achieving the Widest Range of Syngas Proportions at High Current Density over Cadmium Sulfoselenide Nanorods in CO₂ Electroreduction. Advanced Materials, 2018, 30, 1705872.	21.0	145
51	Enhanced Electrocatalytic Reduction of CO₂ via Chemical Coupling between Indium Oxide and Reduced Graphene Oxide. Nano Letters, 2019, 19, 4029-4034.	9.1	142
52	Harnessing copper-palladium alloy tetrapod nanoparticle-induced pro-survival autophagy for optimized photothermal therapy of drug-resistant cancer. Nature Communications, 2018, 9, 4236.	12.8	139
53	Water enables mild oxidation of methane to methanol on gold single-atom catalysts. Nature Communications, 2021, 12, 1218.	12.8	138
54	Single Atoms of Iron on MoS₂ Nanosheets for N₂ Electroreduction into Ammonia. Angewandte Chemie - International Edition, 2020, 59, 20411-20416.	13.8	136

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55	Copperâ€Based Plasmonic Catalysis: Recent Advances and Future Perspectives. Advanced Materials, 2021, 33, e2008145.	21.0	131
56	Dissolving Ag from Auâ^'Ag Alloy Nanoboxes with H₂O₂: A Method for Both Tailoring the Optical Properties and Measuring the H₂O₂ Concentration. Journal of Physical Chemistry C, 2010, 114, 6396-6400.	3.1	127
57	Pt Single Atoms Embedded in the Surface of Ni Nanocrystals as Highly Active Catalysts for Selective Hydrogenation of Nitro Compounds. Nano Letters, 2018, 18, 3785-3791.	9.1	127
58	Intercalated Iridium Diselenide Electrocatalysts for Efficient pHâ€Universal Water Splitting. Angewandte Chemie - International Edition, 2019, 58, 14764-14769.	13.8	126
59	Bi@Sn Coreâ€“Shell Structure with Compressive Strain Boosts the Electroreduction of CO₂ into Formic Acid. Advanced Science, 2020, 7, 1902989.	11.2	125
60	Versatile Graphene Quantum Dots with Tunable Nitrogen Doping. Particle and Particle Systems Characterization, 2014, 31, 597-604.	2.3	124
61	Unmodified CdSe Quantum Dots Induce Elevation of Cytoplasmic Calcium Levels and Impairment of Functional Properties of Sodium Channels in Rat Primary Cultured Hippocampal Neurons. Environmental Health Perspectives, 2008, 116, 915-922.	6.0	122
62	Oxygen Vacancies in ZnO Nanosheets Enhance CO₂ Electrochemical Reduction to CO. Angewandte Chemie, 2018, 130, 6162-6167.	2.0	122
63	Electrical and structural engineering of cobalt selenide nanosheets by Mn modulation for efficient oxygen evolution. Applied Catalysis B: Environmental, 2018, 236, 569-575.	20.2	122
64	Rational Design of Metal Nanoframes for Catalysis and Plasmonics. Small, 2015, 11, 2593-2605.	10.0	121
65	Necklaceâ€like Nobleâ€Metal Hollow Nanoparticle Chains: Synthesis and Tunable Optical Properties. Advanced Materials, 2007, 19, 2172-2176.	21.0	120
66	Nanocrystalâ€Based Timeâ€“Temperature Indicators. Chemistry - A European Journal, 2010, 16, 12559-12563.	3.3	118
67	Optimizing reaction paths for methanol synthesis from CO2 hydrogenation via metal-ligand cooperativity. Nature Communications, 2019, 10, 1885.	12.8	116
68	2D Behaviors of Excitons in Cesium Lead Halide Perovskite Nanoplatelets. Journal of Physical Chemistry Letters, 2017, 8, 1161-1168.	4.6	115
69	Understanding of Strain Effects in the Electrochemical Reduction of CO₂: Using Pd Nanostructures as an Ideal Platform. Angewandte Chemie, 2017, 129, 3648-3652.	2.0	112
70	Photocatalytic Conversion of Methane: Recent Advancements and Prospects. Angewandte Chemie - International Edition, 2022, 61, .	13.8	111
71	Molecular-Level Insight into How Hydroxyl Groups Boost Catalytic Activity in CO2 Hydrogenation into Methanol. CheM, 2018, 4, 613-625.	11.7	110
72	A Highly Efficient Metalâ€Free Electrocatalyst of Fâ€Doped Porous Carbon toward N₂ Electroreduction. Advanced Materials, 2020, 32, e1907690.	21.0	105

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73	Selective Sulfuration at the Corner Sites of a Silver Nanocrystal and Its Use in Stabilization of the Shape. Nano Letters, 2011, 11, 3010-3015.	9.1	102
74	Pdâ€“Pt Tesseracts for the Oxygen Reduction Reaction. Journal of the American Chemical Society, 2021, 143, 496-503.	13.7	100
75	Enhanced N₂ Electroreduction over LaCoO₃ by Introducing Oxygen Vacancies. ACS Catalysis, 2020, 10, 1077-1085.	11.2	98
76	Facile Synthesis of Fiveâ€fold Twinned, Starfishâ€like Rhodium Nanocrystals by Eliminating Oxidative Etching with a Chlorideâ€Free Precursor. Angewandte Chemie - International Edition, 2010, 49, 5296-5300.	13.8	97
77	Goldâ€Based Hybrid Nanocrystals Through Heterogeneous Nucleation and Growth. Advanced Materials, 2010, 22, 1936-1940.	21.0	96
78	Facile Synthesis of Gold Wavy Nanowires and Investigation of Their Growth Mechanism. Journal of the American Chemical Society, 2012, 134, 20234-20237.	13.7	95
79	Screwâ€Dislocationâ€Driven Bidirectional Spiral Growth of Bi₂Se₃ Nanoplates. Angewandte Chemie - International Edition, 2014, 53, 6425-6429.	13.8	92
80	Aerobic Oxidation of Cyclohexane on Catalysts Based on Twinned and Single-Crystal Au₇₅Pd₂₅ Bimetallic Nanocrystals. Nano Letters, 2015, 15, 2875-2880.	9.1	92
81	Integration of Quantum Confinement and Alloy Effect to Modulate Electronic Properties of RhW Nanocrystals for Improved Catalytic Performance toward CO₂ Hydrogenation. Nano Letters, 2017, 17, 788-793.	9.1	91
82	Atomic-Level Construction of Tensile-Strained PdFe Alloy Surface toward Highly Efficient Oxygen Reduction Electrocatalysis. Nano Letters, 2020, 20, 1403-1409.	9.1	89
83	Harmonizing the Electronic Structures of the Adsorbate and Catalysts for Efficient CO₂ Reduction. Nano Letters, 2019, 19, 6547-6553.	9.1	88
84	A Mechanistic Study on the Formation of Silver Nanoplates in the Presence of Silver Seeds and Citric Acid or Citrate Ions. Chemistry - an Asian Journal, 2011, 6, 376-379.	3.3	86
85	Mechanisms of unmodified CdSe quantum dot-induced elevation of cytoplasmic calcium levels in primary cultures of rat hippocampal neurons. Biomaterials, 2008, 29, 4383-4391.	11.4	85
86	Synthesis of Multishell Nanoplates by Consecutive Epitaxial Growth of Bi₂Se₃ and Bi₂Te₃ Nanoplates and Enhanced Thermoelectric Properties. ACS Nano, 2015, 9, 6843-6853.	14.6	85
87	Controlling the Size and Morphology of Au@Pd Coreâ€“Shell Nanocrystals by Manipulating the Kinetics of Seeded Growth. Chemistry - A European Journal, 2012, 18, 8150-8156.	3.3	84
88	Ternary Grapheneâ€“TiO₂â€“Fe₃O₄ Nanocomposite as a Recollectable Photocatalyst with Enhanced Durability. European Journal of Inorganic Chemistry, 2012, 2012, 4439-4444.	2.0	83
89	Symmetric and Asymmetric Auâ€“AgCdSe Hybrid Nanorods. Nano Letters, 2012, 12, 5281-5286.	9.1	81
90	Integration of Photothermal Effect and Heat Insulation to Efficiently Reduce Reaction Temperature of CO₂ Hydrogenation. Small, 2017, 13, 1602583.	10.0	77

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91	Tuning the Electronic and Steric Interaction at the Atomic Interface for Enhanced Oxygen Evolution. Journal of the American Chemical Society, 2022, 144, 9271-9279.	13.7	76
92	Ratio-Controlled Synthesis of CuNi Octahedra and Nanocubes with Enhanced Catalytic Activity. Journal of the American Chemical Society, 2015, 137, 14027-14030.	13.7	75
93	Selectively anchoring single atoms on specific sites of supports for improved oxygen evolution. Nature Communications, 2022, 13, 2473.	12.8	73
94	Seedâ€Mediated Synthesis of Singleâ€Crystal Gold Nanospheres with Controlled Diameters in the Range 5â€“30â€…nm and their Selfâ€Assembly upon Dilution. Chemistry - an Asian Journal, 2013, 8, 792-799.	3.3	72
95	Oxygen Evolution Reaction: Electron Correlations Engineer Catalytic Activity of Pyrochlore Iridates for Acidic Water Oxidation (Adv. Mater. 6/2019). Advanced Materials, 2019, 31, 1970042.	21.0	72
96	Single Fe atoms anchored by short-range ordered nanographene boost oxygen reduction reaction in acidic media. Nano Energy, 2019, 66, 104164.	16.0	68
97	Seedâ€Mediated Synthesis of Truncated Gold Decahedrons with a AuCl/Oleylamine Complex as Precursor. Advanced Materials, 2010, 22, 1930-1934.	21.0	66
98	Electron Correlations Engineer Catalytic Activity of Pyrochlore Iridates for Acidic Water Oxidation. Advanced Materials, 2019, 31, e1805104.	21.0	63
99	Facile Synthesis of Gold Nanorice Enclosed by Highâ€Index Facets and Its Application for CO Oxidation. Small, 2011, 7, 2307-2312.	10.0	62
100	Not just a pretty flower. Nature Nanotechnology, 2012, 7, 415-416.	31.5	62
101	Manipulating the oxygen reduction activity of platinum shells with shape-controlled palladium nanocrystal cores. Chemical Communications, 2013, 49, 9030.	4.1	62
102	Ultra-Sensitive and Selective Detection of Arsenic(III) via Electroanalysis over Cobalt Single-Atom Catalysts. Analytical Chemistry, 2020, 92, 6128-6135.	6.5	59
103	Integration of Kinetic Control and Lattice Mismatch To Synthesize Pd@AuCu Coreâ€“Shell Planar Tetrapods with Size-Dependent Optical Properties. Nano Letters, 2016, 16, 3036-3041.	9.1	58
104	Synthesis of Core/Shell Nanoparticles of Au/CdSe via Auâˆ’Cd Bialloy Precursor. Langmuir, 2005, 21, 3684-3687.	3.5	57
105	Gold atom-decorated CoSe₂nanobelts with engineered active sites for enhanced oxygen evolution. Journal of Materials Chemistry A, 2017, 5, 20202-20207.	10.3	57
106	Nanoconfinement Engineering over Hollow Multiâ€Shell Structured Copper towards Efficient Electrocatalytical Câˆ’C coupling. Angewandte Chemie - International Edition, 2022, 61, .	13.8	57
107	In-Situ Surface Reconstruction of InN Nanosheets for Efficient CO₂ Electroreduction into Formate. Nano Letters, 2020, 20, 8229-8235.	9.1	55
108	Nanocables composed of anatase nanofibers wrapped in UV-light reduced graphene oxide and their enhancement of photoinduced electron transfer in photoanodes. Journal of Materials Chemistry, 2011, 21, 18174.	6.7	53

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109	Symmetry-Breaking Sites for Activating Linear Carbon Dioxide Molecules. Accounts of Chemical Research, 2021, 54, 1454-1464.	15.6	53
110	Synthesis of small silver nanocubes in a hydrophobic solvent by introducing oxidative etching with Fe(iii) species. Journal of Materials Chemistry, 2010, 20, 3586.	6.7	50
111	Copper Nanocrystal Plane Effect on Stereoselectivity of Catalytic Deoxygenation of Aromatic Epoxides. Journal of the American Chemical Society, 2015, 137, 3791-3794.	13.7	50
112	N₂ Electrochemical Reduction: Achieving a Recordâ€High Yield Rate of 120.9 Î¼gNH3â€‰â€‰mgcat.â^'1â€‰â€‰hâ^'1 for N₂ Electrochemical Reduction over Ru Singleâ€Atom Catalysts (Adv.	20.1	50
113	AuI: an alternative and potentially better precursor than AuIII for the synthesis of Au nanostructures. Journal of Materials Chemistry, 2010, 20, 2290.	6.7	49
114	Charge transfer and retention in directly coupled Au-CdSe nanohybrids. Nano Research, 2012, 5, 88-98.	10.4	49
115	Tuning the coordination number of Fe single atoms for the efficient reduction of CO₂. Green Chemistry, 2020, 22, 7529-7536.	9.0	49
116	Surface Iron Species in Palladiumâ€“Iron Intermetallic Nanocrystals that Promote and Stabilize CO₂ Methanation. Angewandte Chemie - International Edition, 2020, 59, 14434-14442.	13.8	49
117	Ambient-pressure hydrogenation of CO2 into long-chain olefins. Nature Communications, 2022, 13, 2396.	12.8	49
118	In-Situ Generated High-Valent Iron Single-Atom Catalyst for Efficient Oxygen Evolution. Nano Letters, 2021, 21, 4795-4801.	9.1	47
119	Single-Molecule Nanocatalysis Reveals Facet-Dependent Catalytic Kinetics and Dynamics of Pallidium Nanoparticles. ACS Catalysis, 2017, 7, 2967-2972.	11.2	46
120	Photocatalytic Conversion of Methane: Recent Advancements and Prospects. Angewandte Chemie, 2022, 134, e202108069.	2.0	46
121	Atomically thin cesium lead bromide perovskite quantum wires with high luminescence. Nanoscale, 2017, 9, 104-108.	5.6	45
122	More accurate depiction of adsorption energy on transition metals using work function as one additional descriptor. Physical Chemistry Chemical Physics, 2017, 19, 12628-12632.	2.8	44
123	Understanding the Effect of *CO Coverage on Câ€“C Coupling toward CO₂ Electroreduction. Nano Letters, 2022, 22, 3801-3808.	9.1	44
124	A novel 2D Co3(HADQ)2 metal-organic framework as a highly active and stable electrocatalyst for acidic oxygen reduction. Chemical Engineering Journal, 2022, 430, 132642.	12.7	43
125	Adjusting Local CO Confinement in Porous-Shell Ag@Cu Catalysts for Enhancing Câ€“C Coupling toward CO₂ Eletroreduction. Nano Letters, 2022, 22, 2554-2560.	9.1	43
126	Nickel Doping in Atomically Thin Tin Disulfide Nanosheets Enables Highly Efficient CO₂ Reduction. Angewandte Chemie, 2018, 130, 11120-11124.	2.0	42

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127	Surface Iron Species in Palladiumâ€“Iron Intermetallic Nanocrystals that Promote and Stabilize CO₂ Methanation. Angewandte Chemie, 2020, 132, 14542-14550.	2.0	41
128	Static Regulation and Dynamic Evolution of Singleâ€Atom Catalysts in Thermal Catalytic Reactions. Advanced Science, 2019, 6, 1801471.	11.2	39
129	Engineering the Electrical Conductivity of Lamellar Silverâ€Doped Cobalt(II) Selenide Nanobelts for Enhanced Oxygen Evolution. Angewandte Chemie, 2017, 129, 334-338.	2.0	38
130	Facet-dependent electrooxidation of propylene into propylene oxide over Ag3PO4 crystals. Nature Communications, 2022, 13, 932.	12.8	38
131	Aqueousâ€Phase Synthesis of Singleâ€Crystal Pd Seeds 3â€…nm in Diameter and Their Use for the Growth of Pd Nanocrystals with Different Shapes. Chemistry - A European Journal, 2013, 19, 5127-5133.	3.3	36
132	Tuning Electronic Structure and Lattice Diffusion Barrier of Ternary Ptâ€“Inâ€“Ni for Both Improved Activity and Stability Properties in Oxygen Reduction Electrocatalysis. ACS Catalysis, 2019, 9, 11431-11437.	11.2	36
133	Breaking the Local Symmetry of LiCoO₂ via Atomic Doping for Efficient Oxygen Evolution. Nano Letters, 2019, 19, 8774-8779.	9.1	35
134	Coordinate activation in heterogeneous carbon dioxide reduction on Co-based molecular catalysts. Applied Catalysis B: Environmental, 2020, 268, 118452.	20.2	35
135	Boost Selectivity of HCOO^{â^’}Using Anchored Bi Single Atoms towards CO₂Reduction. ChemSusChem, 2020, 13, 6307-6311.	6.8	35
136	Electronic Tuning of SnS₂ Nanosheets by Hydrogen Incorporation for Efficient CO₂ Electroreduction. Nano Letters, 2021, 21, 7789-7795.	9.1	35
137	Co-based molecular catalysts for efficient CO2 reduction via regulating spin states. Applied Catalysis B: Environmental, 2021, 290, 120067.	20.2	35
138	One-Step Synthesis of Hybrid Nanocrystals with Rational Tuning of the Morphology. Nano Letters, 2014, 14, 6666-6671.	9.1	33
139	Concave Cu-Pd bimetallic nanocrystals: Ligand-based Co-reduction and mechanistic study. Nano Research, 2015, 8, 2415-2430.	10.4	33
140	Structural Determination of Catalytically Active Subnanometer Iron Oxide Clusters. ACS Catalysis, 2016, 6, 3072-3082.	11.2	33
141	Comparative study of the structure, mechanical and thermomechanical properties of cellulose nanopapers with different thickness. Cellulose, 2016, 23, 1375-1382.	4.9	33
142	Onâ€Chip Screening of Experimental Conditions for the Synthesis of Nobleâ€Metal Nanostructures with Different Morphologies. Small, 2011, 7, 3308-3316.	10.0	32
143	A phosphate-derived bismuth catalyst with abundant grain boundaries for efficient reduction of CO₂ to HCOOH. Chemical Communications, 2021, 57, 1502-1505.	4.1	32
144	Catalytic Kinetics of Different Types of Surface Atoms on Shaped Pd Nanocrystals. Angewandte Chemie - International Edition, 2016, 55, 1839-1843.	13.8	30

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145	Intercalated Iridium Diselenide Electrocatalysts for Efficient pHâ€Universal Water Splitting. Angewandte Chemie, 2019, 131, 14906-14911.	2.0	30
146	Atomic-level insights into strain effect on p-nitrophenol reduction via Au@Pd coreâ€“shell nanocubes as an ideal platform. Journal of Catalysis, 2020, 381, 427-433.	6.2	30
147	Single atoms supported on metal oxides for energy catalysis. Journal of Materials Chemistry A, 2022, 10, 5717-5742.	10.3	29
148	High pressure photoluminescence of CdZnSe quantum dots: Alloying effect. Journal of Applied Physics, 2007, 102, .	2.5	28
149	A Mechanistic Study on the Nucleation and Growth of Au on Pd Seeds with a Cubic or Octahedral Shape. ChemCatChem, 2012, 4, 1668-1674.	3.7	28
150	A Theory-Guided X-ray Absorption Spectroscopy Approach for Identifying Active Sites in Atomically Dispersed Transition-Metal Catalysts. Journal of the American Chemical Society, 2021, 143, 20144-20156.	13.7	28
151	A novel property of styreneâ€“butadieneâ€“styrene/clay nanocomposites: radiation resistance. Journal of Materials Chemistry, 2004, 14, 209-213.	6.7	27
152	Facile Synthesis of Bimetallic Ag/Ni Core/Sheath Nanowires and Their Magnetic and Electrical Properties. Small, 2010, 6, 1927-1934.	10.0	27
153	Chloride-induced shape transformation of silver nanoparticles in a water environment. Environmental Pollution, 2015, 204, 145-151.	7.5	27
154	Supported Rhodium Catalysts for Ammoniaâ€“Borane Hydrolysis: Dependence of the Catalytic Activity on the Highest Occupied State of the Single Rhodium Atoms. Angewandte Chemie, 2017, 129, 4790-4796.	2.0	27
155	One-pot synthesis of Bi2Se3 nanostructures with rationally tunable morphologies. Nano Research, 2015, 8, 3612-3620.	10.4	25
156	Rhâ€Based Nanocatalysts for Heterogeneous Reactions. ChemNanoMat, 2018, 4, 451-466.	2.8	25
157	UV-Light Induced Fabrication of CdCl2Nanotubes through CdSe/Te Nanocrystals Based on Dimension and Configuration Control. Nano Letters, 2008, 8, 1318-1322.	9.1	24
158	Introduction of carbonâ€“boron atomic groups as an efficient strategy to boost formic acid production toward CO‹sub›2‹/sub›electrochemical reduction. Chemical Communications, 2018, 54, 3367-3370.	4.1	24
159	Catalytically active ceria-supported cobaltâ€“manganese oxide nanocatalysts for oxidation of carbon monoxide. Physical Chemistry Chemical Physics, 2017, 19, 14533-14542.	2.8	23
160	Phosphorus-modulated cobalt selenides enable engineered reconstruction of active layers for efficient oxygen evolution. Journal of Catalysis, 2018, 368, 155-162.	6.2	23
161	Auâ€“Pd Alloy Octapods with High Electrocatalytic Activity for the Oxidation of Formic Acid. Particle and Particle Systems Characterization, 2015, 32, 295-300.	2.3	22
162	Growth of metalâ€“semiconductor coreâ€“multishell nanorods with optimized field confinement and nonlinear enhancement. Nanoscale, 2016, 8, 11969-11975.	5.6	22

#	Article	IF	Citations
163	Computation-Guided Development of Platinum Alloy Catalyst for Carbon Monoxide Preferential Oxidation. ACS Catalysis, 2018, 8, 5777-5786.	11.2	22
164	Enhance the activity of multi-carbon products for Cu via P doping towards CO2 reduction. Science China Chemistry, 2021, 64, 1096-1102.	8.2	22
165	Ptâ€“Cu hierarchical quasi great dodecahedrons with abundant twinning defects for hydrogen evolution. Chemical Communications, 2017, 53, 6922-6925.	4.1	22
166	Tuning the Interaction between Ruthenium Single Atoms and the Second Coordination Sphere for Efficient Nitrogen Photofixation. Advanced Functional Materials, 2022, 32, .	14.9	22
167	Dimensionality Control of Electrocatalytic Activity in Perovskite Nickelates. Nano Letters, 2020, 20, 2837-2842.	9.1	21
168	Pt₃Co Octapods as Superior Catalysts of CO₂ Hydrogenation. Angewandte Chemie, 2016, 128, 9700-9704.	2.0	20
169	Controlling the lateral and vertical dimensions of Bi2Se3 nanoplates via seeded growth. Nano Research, 2015, 8, 246-256.	10.4	19
170	Electrodeposited highly-oriented bismuth microparticles for efficient CO2 electroreduction into formate. Nano Research, 2022, 15, 10078-10083.	10.4	19
171	Facile synthesis of Cu-Pd bimetallic multipods for application in cyclohexane oxidation. Nanotechnology, 2014, 25, 435602.	2.6	18
172	Synthesis and metalâ€“support interaction of subnanometer copperâ€“palladium bimetallic oxide clusters for catalytic oxidation of carbon monoxide. Inorganic Chemistry Frontiers, 2017, 4, 668-674.	6.0	18
173	Single Atoms of Iron on MoS₂ Nanosheets for N₂ Electroreduction into Ammonia. Angewandte Chemie, 2020, 132, 20591-20596.	2.0	17
174	Controlled growth and magnetic properties of Î±-Fe2O3 nanocrystals: Octahedra, cuboctahedra and truncated cubes. CrystEngComm, 2012, 14, 3355.	2.6	16
175	Nanoimaging of Electronic Heterogeneity in Bi₂Se₃ and Sb₂Te₃ Nanocrystals. Advanced Electronic Materials, 2018, 4, 1700377.	5.1	16
176	Boosting fuel cell catalysis by surface doping of W on Pd nanocubes. Chinese Journal of Catalysis, 2018, 39, 1202-1209.	14.0	16
177	Plasmon-Modulated Excitation-Dependent Fluorescence from Activated CTAB Molecules Strongly Coupled to Gold Nanoparticles. Scientific Reports, 2017, 7, 43282.	3.3	15
178	High-index facets of Pt Fe nanowires induce steric effect on selective hydrogenation of acetophenone. Journal of Catalysis, 2019, 373, 209-214.	6.2	15
179	Direct Observation of Magneticâ€ion Offâ€Centeringâ€Induced Ferroelectricity in Multiferroic Manganite Pr(Sr_{0.1}Ca_{0.9})₂Mn₂O₇. Advanced Materials, 2015, 27, 6328-6332.	21.0	14
180	Copperâ€“Palladium Tetrapods with Sharp Tips as a Superior Catalyst for the Oxygen Reduction Reaction. ChemCatChem, 2018, 10, 925-930.	3.7	14

#	Article	IF	Citations
181	Size-Controlled Biocompatible Silver Nanoplates for Contrast-Enhanced Intravital Photoacoustic Mapping of Tumor Vasculature. Journal of Biomedical Nanotechnology, 2018, 14, 1448-1457.	1.1	14
182	Engineering electronic structures of nanomaterials towardÂcarbon dioxide electroreduction. Current Opinion in Electrochemistry, 2019, 17, 7-15.	4.8	14
183	Glutathionylation-dependent proteasomal degradation of wide-spectrum mutant p53 proteins by engineered zeolitic imidazolate framework-8. Biomaterials, 2021, 271, 120720.	11.4	14
184	Fine tuning photoluminescence properties of CdSe nanoparticles by surface states modulation. Journal of Colloid and Interface Science, 2006, 298, 685-688.	9.4	13
185	Raman scattering enhanced within the plasmonic gap between an isolated Ag triangular nanoplate and Ag film. Nanotechnology, 2016, 27, 165401.	2.6	13
186	Bias-Adaptable CO₂-to-CO Conversion via Tuning the Binding of Competing Intermediates. Nano Letters, 2021, 21, 8924-8932.	9.1	13
187	Progresses on carbon dioxide electroreduction into methane. Chinese Journal of Catalysis, 2022, 43, 1634-1641.	14.0	13
188	Inductive effect as a universal concept to design efficient catalysts for CO₂electrochemical reduction: electronegativity difference makes a difference. Journal of Materials Chemistry A, 2021, 9, 4626-4647.	10.3	12
189	Probing the surface chemistry for reverse water gas shift reaction on Pt(1 1 1) using ambient pressure X-ray photoelectron spectroscopy. Journal of Catalysis, 2020, 391, 123-131.	6.2	11
190	Molecular Stabilization of Subâ€Nanometer Cu Clusters for Selective CO₂ Electromethanation. ChemSusChem, 2022, 15, .	6.8	11
191	Promoting N2 electroreduction into NH3 over porous carbon by introducing oxygen-containing groups. Chemical Engineering Journal, 2022, 434, 134636.	12.7	9
192	Gold-Based Nanoparticles for Breast Cancer Diagnosis and Treatment. , 2007, , .		8
193	Rh Doping in Pd Nanocubes Optimizes the Adsorption of 3â€Nitrostyrene towards Selective Hydrogenation of Vinyl Group. ChemCatChem, 2019, 11, 2793-2798.	3.7	8
194	Molecular Modification of Single Cobalt Sites Boosts the Catalytic Activity of CO 2 Electroreduction into CO. ChemPhysChem, 2020, 21, 2051-2055.	2.1	8
195	Atomically Dispersed Platinum in Surface and Subsurface Sites on MgO Have Contrasting Catalytic Properties for CO Oxidation. Journal of Physical Chemistry Letters, 2022, 13, 3896-3903.	4.6	7
196	Ethylenediaminetetraacetic acid-assisted synthesis of Bi2Se3 nanostructures with unique edge sites. Nano Research, 2016, 9, 2707-2714.	10.4	6
197	Synthesis of Tunable Syngas on Cobaltâ€Based Catalysts towards Carbon Dioxide Reduction. ChemNanoMat, 2021, 7, 2-6.	2.8	6
198	Heterogeneous Catalysts toward CO₂ Hydrogenation for Sustainable Carbon Cycle. Accounts of Materials Research, 2022, 3, 565-571.	11.7	6

#	Article	IF	Citations
199	Constructing subtle grain boundaries on Au sheets for enhanced CO2 photoreduction. Science China Chemistry, 2020, 63, 1705-1710.	8.2	5
200	Probing the nickel corrosion phenomena in alkaline electrolyte using tender x-ray ambient pressure x-ray photoelectron spectroscopy. Journal Physics D: Applied Physics, 2021, 54, 374001.	2.8	5
201	Synthesis and Characterization of Pressure and Temperature Dualâ€Responsive Polystyrene Microbeads. Particle and Particle Systems Characterization, 2013, 30, 542-548.	2.3	4
202	Quantitative insights into non-uniform plasmonic hotspots due to symmetry breaking induced by oblique incidence. Physical Chemistry Chemical Physics, 2020, 22, 19932-19939.	2.8	4
203	Nanoconfinement Engineering over Hollow Multiâ€Shell Structured Copper towards Efficient Electrocatalytical Câ¯C coupling. Angewandte Chemie, 2022, 134, e202113498.	2.0	4
204	Photoâ€•and Electrocatalytic CO₂ Reduction Based on Stable Leadâ€Free Perovskite Cs₂PdBr₆. Energy and Environmental Materials, 2023, 6, .	12.8	4
205	Highly active and thermostable submonolayer La(NiCo)Oî” catalyst stabilized by a perovskite LaCrO3 support. Communications Chemistry, 2022, 5, .	4.5	4
206	Nanoframes: Rational Design of Metal Nanoframes for Catalysis and Plasmonics (Small 22/2015). Small, 2015, 11, 2592-2592.	10.0	3
207	Precisely Controlled Synthesis of Pt-Pd Octahedral Nanoframes as a Superior Catalyst towards Oxygen Reduction Reaction. Chinese Journal of Chemical Physics, 2017, 30, 581-587.	1.3	3
208	Competitive Transient Electrostatic Adsorption for In Situ Regeneration of Poisoned Catalyst. ChemCatChem, 2019, 11, 1179-1184.	3.7	3
209	Oscillation of Work Function during Reducible Metal Oxide Catalysis and Correlation with the Activity Property. ChemCatChem, 2020, 12, 85-89.	3.7	3
210	N₂ Electroreduction: A Highly Efficient Metalâ€Free Electrocatalyst of Fâ€Doped Porous Carbon toward N₂ Electroreduction (Adv. Mater. 24/2020). Advanced Materials, 2020, 32, 2070186.	21.0	3
211	Lysineâ€Functionalized SnO ₂ for Efficient CO ₂ Electroreduction into Formate. ChemNanoMat, 0, , .	2.8	2
212	Low-Temperature Câ€“H Bond Activation: Ethylbenzene-to-Styrene Conversion on Rutile TiO₂(110). Journal of Physical Chemistry C, 2022, 126, 6231-6240.	3.1	2
213	Nanoscale Biomarkers for Cancer Genomics and Protemics. , 2006, , .		1
214	Surface modifications of gold-nanoparticles to enhance radiation cytotoxicity. , 2007, , .		1
215	Effect of Screw-Dislocation on Electrical Properties of Spiral-Type Bi2Se3 Nanoplates. Chinese Journal of Chemical Physics, 2016, 29, 687-692.	1.3	1
216	Innentitelbild: Pt₃Co Octapods as Superior Catalysts of CO₂ Hydrogenation (Angew. Chem. 33/2016). Angewandte Chemie, 2016, 128, 9594-9594.	2.0	1

#	Article	IF	Citations
217	Anchoring Pt Single Atoms on CeOx Nanoclusters for CO Oxidation. Microscopy and Microanalysis, 2018, 24, 1660-1661.	0.4	1
218	Colloidal Hybrid Nanocrystals: Synthesis, Properties, and Perspectives. , 2011, , .		0
219	Inside Cover: Silver Nanocrystals with Concave Surfaces and Their Optical and Surface-Enhanced Raman Scattering Properties (Angew. Chem. Int. Ed. 52/2011). Angewandte Chemie - International Edition, 2011, 50, 12368-12368.	13.8	0
220	RÃ¼cktitelbild: Controlling the Nucleation and Growth of Silver on Palladium Nanocubes by Manipulating the Reaction Kinetics (Angew. Chem. 10/2012). Angewandte Chemie, 2012, 124, 2562-2562.	2.0	0
221	Back Cover: Controlling the Nucleation and Growth of Silver on Palladium Nanocubes by Manipulating the Reaction Kinetics (Angew. Chem. Int. Ed. 10/2012). Angewandte Chemie - International Edition, 2012, 51, 2512-2512.	13.8	0
222	Frontispiz: Supported Rhodium Catalysts for Ammoniaâ€“Borane Hydrolysis: Dependence of the Catalytic Activity on the Highest Occupied State of the Single Rhodium Atoms. Angewandte Chemie, 2017, 129, .	2.0	0
223	Frontispiece: Supported Rhodium Catalysts for Ammoniaâ€“Borane Hydrolysis: Dependence of the Catalytic Activity on the Highest Occupied State of the Single Rhodium Atoms. Angewandte Chemie - International Edition, 2017, 56, .	13.8	0
224	Singleâ€Atom Catalysis: Static Regulation and Dynamic Evolution of Singleâ€Atom Catalysts in Thermal Catalytic Reactions (Adv. Sci. 3/2019). Advanced Science, 2019, 6, 1970015.	11.2	0
225	Frontispiece: Surface Iron Species in Palladiumâ€“Iron Intermetallic Nanocrystals that Promote and Stabilize CO₂ Methanation. Angewandte Chemie - International Edition, 2020, 59, .	13.8	0
226	Frontispiz: Surface Iron Species in Palladiumâ€“Iron Intermetallic Nanocrystals that Promote and Stabilize CO₂ Methanation. Angewandte Chemie, 2020, 132, .	2.0	0
227	The midas touch on copper into palladium. Science China Chemistry, 2020, 63, 1740-1741.	8.2	0
228	Synthesis of Gold Nanostructures with Controlled Morphologies from AuCl(Oleylamine) Complex. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2009, 25, 1026-1032.	4.9	0
229	Tuning the Interaction between Ruthenium Single Atoms and the Second Coordination Sphere for Efficient Nitrogen Photofixation (Adv. Funct. Mater. 12/2022). Advanced Functional Materials, 2022, 32, .	14.9	0