

Zhao-Xiong Xie

List of Publications by Year in descending order

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174
papers

16,147
citations

18436

62
h-index

16605

123
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179
all docs

179
docs citations

179
times ranked

18397
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of "Clean" and Well-Dispersive Pd Nanoparticles with Excellent Electrocatalytic Property on Graphene Oxide. <i>Journal of the American Chemical Society</i> , 2011, 133, 3693-3695.	6.6	857
2	Platinum-based nanocages with subnanometer-thick walls and well-defined, controllable facets. <i>Science</i> , 2015, 349, 412-416.	6.0	854
3	Epitaxial Growth of Heterogeneous Metal Nanocrystals: From Gold Nano-octahedra to Palladium and Silver Nanocubes. <i>Journal of the American Chemical Society</i> , 2008, 130, 6949-6951.	6.6	719
4	Semiconductor@Metal "Organic Framework Core" Shell Heterostructures: A Case of ZnO@ZIF-8 Nanorods with Selective Photoelectrochemical Response. <i>Journal of the American Chemical Society</i> , 2013, 135, 1926-1933.	6.6	691
5	MOF-Derived Porous Co/C Nanocomposites with Excellent Electromagnetic Wave Absorption Properties. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 13604-13611.	4.0	687
6	Palladium-platinum core-shell icosahedra with substantially enhanced activity and durability towards oxygen reduction. <i>Nature Communications</i> , 2015, 6, 7594.	5.8	440
7	Synthesis of Pd nanocrystals enclosed by {100} facets and with sizes ≤ 10 nm for application in CO oxidation. <i>Nano Research</i> , 2011, 4, 83-91.	5.8	436
8	Synthesis of Tin Dioxide Octahedral Nanoparticles with Exposed High-Energy {221} Facets and Enhanced Gas-Sensing Properties. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 9180-9183.	7.2	405
9	Synthesis of Pd-Pt Bimetallic Nanocrystals with a Concave Structure through a Bromide-Induced Galvanic Replacement Reaction. <i>Journal of the American Chemical Society</i> , 2011, 133, 6078-6089.	6.6	405
10	Platinum-nickel alloy excavated nano-multipods with hexagonal close-packed structure and superior activity towards hydrogen evolution reaction. <i>Nature Communications</i> , 2017, 8, 15131.	5.8	364
11	Palladium nanocrystals enclosed by {100} and {111} facets in controlled proportions and their catalytic activities for formic acid oxidation. <i>Energy and Environmental Science</i> , 2012, 5, 6352-6357.	15.6	358
12	Controlling Morphologies and Tuning the Related Properties of Nano/Microstructured ZnO Crystallites. <i>Journal of Physical Chemistry C</i> , 2009, 113, 584-589.	1.5	349
13	Synthesis of porous Cu ₂ O/CuO cages using Cu-based metal-organic frameworks as templates and their gas-sensing properties. <i>Journal of Materials Chemistry A</i> , 2015, 3, 12796-12803.	5.2	341
14	Pd@Pt Core-Shell Concave Decahedra: A Class of Catalysts for the Oxygen Reduction Reaction with Enhanced Activity and Durability. <i>Journal of the American Chemical Society</i> , 2015, 137, 15036-15042.	6.6	296
15	Syntheses and Properties of Micro/Nanostructured Crystallites with High-Energy Surfaces. <i>Advanced Functional Materials</i> , 2010, 20, 3634-3645.	7.8	230
16	Pt-Based Icosahedral Nanocages: Using a Combination of {111} Facets, Twin Defects, and Ultrathin Walls to Greatly Enhance Their Activity toward Oxygen Reduction. <i>Nano Letters</i> , 2016, 16, 1467-1471.	4.5	228
17	Unique Excavated Rhombic Dodecahedral PtCu ₃ Alloy Nanocrystals Constructed with Ultrathin Nanosheets of High-Energy {110} Facets. <i>Journal of the American Chemical Society</i> , 2014, 136, 3748-3751.	6.6	226
18	Atomically dispersed hierarchically ordered porous Fe-N-C electrocatalyst for high performance electrocatalytic oxygen reduction in Zn-Air battery. <i>Nano Energy</i> , 2020, 71, 104547.	8.2	206

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19	Formation of ZnO hexagonal micro-pyramids: a successful control of the exposed polar surfaces with the assistance of an ionic liquid. <i>Chemical Communications</i> , 2005, , 5572.	2.2	205
20	High-Energy-Surface Engineered Metal Oxide Micro- and Nanocrystallites and Their Applications. <i>Accounts of Chemical Research</i> , 2014, 47, 308-318.	7.6	203
21	Supersaturation-Controlled Shape Evolution of Fe_2O_3 Nanocrystals and Their Facet-Dependent Catalytic and Sensing Properties. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 12505-12514.	4.0	196
22	Tailoring the Optical Property by a Three-Dimensional Epitaxial Heterostructure: A Case of ZnO/SnO ₂ . <i>Journal of the American Chemical Society</i> , 2005, 127, 11777-11784.	6.6	195
23	A Phytic Acid Induced Superamphiphilic Multifunctional 3D Graphene-Based Foam. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 3936-3941.	7.2	176
24	The effect of noble metal (Au, Pd and Pt) nanoparticles on the gas sensing performance of SnO ₂ -based sensors: a case study on the {221} high-index faceted SnO ₂ octahedra. <i>CrystEngComm</i> , 2015, 17, 6308-6313.	1.3	159
25	Supersaturation-Dependent Surface Structure Evolution: From Ionic, Molecular to Metallic Micro/Nanocrystals. <i>Journal of the American Chemical Society</i> , 2013, 135, 9311-9314.	6.6	149
26	Optimizing the Electromagnetic Wave Absorption Performances of Designed Co ₃ Fe ₇ @C Yolk-Shell Structures. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 28839-28849.	4.0	147
27	Single-crystal-like hematite colloidal nanocrystal clusters: synthesis and applications in gas sensors, photocatalysis and water treatment. <i>Journal of Materials Chemistry</i> , 2009, 19, 6154.	6.7	139
28	The function of metal-organic frameworks in the application of MOF-based composites. <i>Nanoscale Advances</i> , 2020, 2, 2628-2647.	2.2	136
29	Growth of Silver Nanowires from Solutions: A Cyclic Penta-twinned-Crystal Growth Mechanism. <i>Journal of Physical Chemistry B</i> , 2005, 109, 9416-9421.	1.2	135
30	Pd-Cu Bimetallic Tripods: A Mechanistic Understanding of the Synthesis and Their Enhanced Electrocatalytic Activity for Formic Acid Oxidation. <i>Advanced Functional Materials</i> , 2014, 24, 7520-7529.	7.8	134
31	Cyclic Penta-Twinned Rhodium Nanobranches as Superior Catalysts for Ethanol Electro-oxidation. <i>Journal of the American Chemical Society</i> , 2018, 140, 11232-11240.	6.6	133
32	Stable palladium hydride as a superior anode electrocatalyst for direct formic acid fuel cells. <i>Nano Energy</i> , 2018, 44, 127-134.	8.2	131
33	Excavated octahedral Pt-Co alloy nanocrystals built with ultrathin nanosheets as superior multifunctional electrocatalysts for energy conversion applications. <i>Nano Energy</i> , 2017, 39, 582-589.	8.2	130
34	Ag@Au Concave Cuboctahedra: A Unique Probe for Monitoring Au-Catalyzed Reduction and Oxidation Reactions by Surface-Enhanced Raman Spectroscopy. <i>ACS Nano</i> , 2016, 10, 2607-2616.	7.3	125
35	Excavated Cubic Platinum-Tin Alloy Nanocrystals Constructed from Ultrathin Nanosheets with Enhanced Electrocatalytic Activity. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 9021-9025.	7.2	111
36	Well-faceted noble-metal nanocrystals with nonconvex polyhedral shapes. <i>Chemical Society Reviews</i> , 2016, 45, 3207-3220.	18.7	111

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37	Controlled Synthesis and Enhanced Catalytic and Gas Sensing Properties of Tin Dioxide Nanoparticles with Exposed High-Energy Facets. <i>Chemistry - A European Journal</i> , 2012, 18, 2283-2289.	1.7	103
38	Surface Engineering Protocol To Obtain an Atomically Dispersed Pt/CeO ₂ Catalyst with High Activity and Stability for CO Oxidation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 14054-14062.	3.2	102
39	High-efficiently visible light-responsive photocatalysts: Ag ₃ PO ₄ tetrahedral microcrystals with exposed {111} facets of high surface energy. <i>Journal of Materials Chemistry A</i> , 2013, 1, 12635.	5.2	100
40	Synthesis of Concave Palladium Nanocubes with High-Index Surfaces and High Electrocatalytic Activities. <i>Chemistry - A European Journal</i> , 2011, 17, 9915-9919.	1.7	98
41	Controlled synthesis of concave Cu ₂ O microcrystals enclosed by {hkl} high-index facets and enhanced catalytic activity. <i>Journal of Materials Chemistry A</i> , 2013, 1, 282-287.	5.2	98
42	Facile syntheses and enhanced electrocatalytic activities of Pt nanocrystals with {hkl} high-index surfaces. <i>Nano Research</i> , 2012, 5, 181-189.	5.8	92
43	Efficient Hot Electron Transfer from Small Au Nanoparticles. <i>Nano Letters</i> , 2020, 20, 4322-4329.	4.5	92
44	Edge Enrichment of Ultrathin 2D PdPtCu Trimetallic Nanostructures Effectuates Top-Ranked Ethanol Electrooxidation. <i>Nano Letters</i> , 2020, 20, 5458-5464.	4.5	90
45	Photo-induced Au-Pd alloying at TiO ₂ {101} facets enables robust CO ₂ photocatalytic reduction into hydrocarbon fuels. <i>Journal of Materials Chemistry A</i> , 2019, 7, 1334-1340.	5.2	89
46	Fabrication of the SnO ₂ /Fe ₂ O ₃ Hierarchical Heterostructure and Its Enhanced Photocatalytic Property. <i>Journal of Physical Chemistry C</i> , 2011, 115, 7874-7879.	1.5	88
47	Synthesis and shape-dependent catalytic properties of CeO ₂ nanocubes and truncated octahedra. <i>CrystEngComm</i> , 2012, 14, 7579.	1.3	88
48	Surfactant-Concentration-Dependent Shape Evolution of Au-Pd Alloy Nanocrystals from Rhombic Dodecahedron to Trisoctahedron and Hexoctahedron. <i>Small</i> , 2013, 9, 538-544.	5.2	88
49	Tip-enhanced Raman spectroscopy for investigating adsorbed species on a single-crystal surface using electrochemically prepared Au tips. <i>Applied Physics Letters</i> , 2007, 91, 101105.	1.5	87
50	One-Step Preparation of Large-Scale Self-Assembled Monolayers of Cyanuric Acid and Melamine Supramolecular Species on Au(111) Surfaces. <i>Journal of Physical Chemistry C</i> , 2008, 112, 4209-4218.	1.5	86
51	Substituent effect on the assembly of coordination polymers containing isophthalic acid and its derivatives. <i>CrystEngComm</i> , 2009, 11, 2548.	1.3	80
52	Carbonate ions-assisted syntheses of anatase TiO ₂ nanoparticles exposed with high energy (001) facets. <i>RSC Advances</i> , 2012, 2, 3251.	1.7	80
53	Pt Particle Size Affects Both the Charge Separation and Water Reduction Efficiencies of CdS-Pt Nanorod Photocatalysts for Light Driven H ₂ Generation. <i>Journal of the American Chemical Society</i> , 2022, 144, 2705-2715.	6.6	80
54	Engineering a high energy surface of anatase TiO ₂ crystals towards enhanced performance for energy conversion and environmental applications. <i>RSC Advances</i> , 2015, 5, 20396-20409.	1.7	79

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55	Biomimetic Metal-Organic Framework Composite-Mediated Cascade Catalysis for Synergistic Bacteria Killing. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 36996-37005.	4.0	78
56	Electrocatalysis of Ethylene Glycol Oxidation on Bare and Bi-Modified Pd Concave Nanocubes in Alkaline Solution: An Interfacial Infrared Spectroscopic Investigation. <i>ACS Catalysis</i> , 2017, 7, 2033-2041.	5.5	77
57	Engineering high-energy surfaces of noble metal nanocrystals with enhanced catalytic performances. <i>Nano Today</i> , 2016, 11, 661-677.	6.2	76
58	Atomically dispersed Pt/CeO ₂ catalyst with superior CO selectivity in reverse water gas shift reaction. <i>Applied Catalysis B: Environmental</i> , 2021, 291, 120101.	10.8	75
59	Synthesis of u-channelled spherical Fe _x (Co _y Ni _{1-y}) _{100x} Janus colloidal particles with excellent electromagnetic wave absorption performance. <i>Nanoscale</i> , 2018, 10, 1930-1938.	2.8	67
60	Rational design and SERS properties of side-by-side, end-to-end and end-to-side assemblies of Au nanorods. <i>Journal of Materials Chemistry</i> , 2011, 21, 14448.	6.7	66
61	Synthesis of Rhodium Concave Tetrahedrons by Collectively Manipulating the Reduction Kinetics, Facet-Selective Capping, and Surface Diffusion. <i>Nano Letters</i> , 2013, 13, 6262-6268.	4.5	66
62	Quaternary Pt-based ultrathin nanowires intensified by Rh enable highly active and robust electrocatalysts for methanol oxidation. <i>Nano Energy</i> , 2020, 71, 104623.	8.2	64
63	The synergy between atomically dispersed Pd and cerium oxide for enhanced catalytic properties. <i>Nanoscale</i> , 2017, 9, 6643-6648.	2.8	63
64	The Origin of Green Emission of ZnO Microcrystallites: Surface-Dependent Light Emission Studied by Cathodoluminescence. <i>Journal of Physical Chemistry C</i> , 2007, 111, 12091-12093.	1.5	62
65	Facile syntheses and electrocatalytic properties of porous Pd and its alloy nanospheres. <i>Journal of Materials Chemistry</i> , 2011, 21, 9620.	6.7	62
66	Cu-Au alloy nanotubes with five-fold twinned structure and their application in surface-enhanced Raman scattering. <i>Journal of Materials Chemistry</i> , 2012, 22, 18192.	6.7	62
67	Room-temperature ferromagnetic/ferroelectric BiFeO ₃ synthesized by a self-catalyzed fast reaction process. <i>Journal of Materials Chemistry</i> , 2010, 20, 6512.	6.7	59
68	Wet chemical synthesis of intermetallic Pt ₃ Zn nanocrystals via weak reduction reaction together with UPD process and their excellent electrocatalytic performances. <i>Nanoscale</i> , 2014, 6, 7019-7024.	2.8	59
69	A facile surfactant-free synthesis of Rh flower-like nanostructures constructed from ultrathin nanosheets and their enhanced catalytic properties. <i>Nano Research</i> , 2016, 9, 849-856.	5.8	56
70	Versatile fabrication of aligned SnO ₂ nanotube arrays by using various ZnO arrays as sacrificial templates. <i>Journal of Materials Chemistry</i> , 2009, 19, 1019-1023.	6.7	55
71	Ultrafine ZnO quantum dot-modified TiO ₂ composite photocatalysts: the role of the quantum size effect in heterojunction-enhanced photocatalytic hydrogen evolution. <i>Catalysis Science and Technology</i> , 2018, 8, 1296-1303.	2.1	55
72	N-doped carbon shell encapsulated PtZn intermetallic nanoparticles as highly efficient catalysts for fuel cells. <i>Nano Research</i> , 2019, 12, 2490-2497.	5.8	54

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73	Toward Rationally Designing Surface Structures of Micro- and Nanocrystallites: Role of Supersaturation. <i>Accounts of Chemical Research</i> , 2018, 51, 2880-2887.	7.6	53
74	Single-Atom Molybdenum Engineered Platinum Nanocatalyst for Boosted Alkaline Hydrogen Oxidation. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	53
75	Single Molecule Conductance of Dipyridines with Conjugated Ethene and Nonconjugated Ethane Bridging Group. <i>Journal of Physical Chemistry C</i> , 2008, 112, 3935-3940.	1.5	52
76	Controlled Encapsulation of Flower-like Rh-Ni Alloys with MOFs via Tunable Template Dealloying for Enhanced Selective Hydrogenation of Alkyne. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 31059-31066.	4.0	52
77	Ultrafast Photoinduced Interfacial Proton Coupled Electron Transfer from CdSe Quantum Dots to 4,4'-Bipyridine. <i>Journal of the American Chemical Society</i> , 2016, 138, 884-892.	6.6	52
78	Critical Roles of Doping Cl on Cu ₂ O Nanocrystals for Direct Epoxidation of Propylene by Molecular Oxygen. <i>Journal of the American Chemical Society</i> , 2020, 142, 14134-14141.	6.6	51
79	Highly efficient ethylene production via electrocatalytic hydrogenation of acetylene under mild conditions. <i>Nature Communications</i> , 2021, 12, 7072.	5.8	51
80	Synthesis of small silver nanocubes in a hydrophobic solvent by introducing oxidative etching with Fe(III) species. <i>Journal of Materials Chemistry</i> , 2010, 20, 3586.	6.7	50
81	Synthesis and high electrocatalytic performance of hexagram shaped gold particles having an open surface structure with kinks. <i>Nano Research</i> , 2011, 4, 612-622.	5.8	50
82	Selective Catalytic Performances of Noble Metal Nanoparticle@MOF Composites: The Concomitant Effect of Aperture Size and Structural Flexibility of MOF Matrices. <i>Chemistry - A European Journal</i> , 2017, 23, 11397-11403.	1.7	50
83	Amplified Interfacial Effect in an Atomically Dispersed RuO _x -Pd 2D Inverse Nanocatalyst for High-Performance Oxygen Reduction. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 16093-16100.	7.2	49
84	Trimetallic PtNiCo branched nanocages as efficient and durable bifunctional electrocatalysts towards oxygen reduction and methanol oxidation reactions. <i>Journal of Materials Chemistry A</i> , 2021, 9, 23444-23450.	5.2	49
85	Synthesis and room temperature four-state memory prototype of Sr ₃ Co ₂ Fe ₂₄ O ₄₁ multiferroics. <i>Applied Physics Letters</i> , 2012, 101, 122903.	1.5	48
86	Shell-Thickness-Dependent Biexciton Lifetime in Type I and Quasi-Type II CdSe@CdS Core/Shell Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2018, 122, 14091-14098.	1.5	47
87	Size controllable redispersion of sintered Au nanoparticles by using iodohydrocarbon and its implications. <i>Chemical Science</i> , 2016, 7, 3181-3187.	3.7	46
88	Efficiently Enhancing Visible Light Photocatalytic Activity of Faceted TiO ₂ Nanocrystals by Synergistic Effects of Core-Shell Structured Au@CdS Nanoparticles and Their Selective Deposition. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 21326-21333.	4.0	43
89	Nanosheet-assembled, hollowed-out hierarchical Fe ₂ O ₃ microrods for high-performance gas sensing. <i>Journal of Materials Chemistry A</i> , 2020, 8, 3754-3762.	5.2	43
90	Plasmonic nanoreactors regulating selective oxidation by energetic electrons and nanoconfined thermal fields. <i>Science Advances</i> , 2021, 7, .	4.7	43

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91	Synthesis of layered protonated titanate hierarchical microspheres with extremely large surface area for selective adsorption of organic dyes. <i>CrystEngComm</i> , 2012, 14, 7715.	1.3	42
92	Monocrystalline platinum–nickel branched nanocages with enhanced catalytic performance towards the hydrogen evolution reaction. <i>Nanoscale</i> , 2018, 10, 5072-5077.	2.8	39
93	Synthesis of sandwich-like $\text{Co}_{15}\text{Fe}_{85}\text{@C/RGO}$ multicomponent composites with tunable electromagnetic parameters and microwave absorption performance. <i>Nanoscale</i> , 2020, 12, 18790-18799.	2.8	39
94	Intense and wavelength-tunable photoluminescence from surface functionalized MgO nanocrystal clusters. <i>Journal of Materials Chemistry</i> , 2011, 21, 7263.	6.7	36
95	Synthesis of spatially uniform metal alloys nanocrystals via a diffusion controlled growth strategy: The case of Au-Pd alloy trisoctahedral nanocrystals with tunable composition. <i>Nano Research</i> , 2012, 5, 618-629.	5.8	36
96	A comparative study of crystallographic van der Waals radii. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2014, 229, 517-523.	0.4	35
97	Enhancing photo-reduction quantum efficiency using quasi-type II core/shell quantum dots. <i>Chemical Science</i> , 2016, 7, 4125-4133.	3.7	35
98	Synthesis and enhanced electromagnetic wave absorption performance of amorphous $\text{Co}_x\text{Fe}_{10-x}$ alloys. <i>Journal of Alloys and Compounds</i> , 2017, 726, 1255-1261.	2.8	35
99	Introducing oxophilic metal and interstitial hydrogen into the Pd lattice to boost electrochemical performance for alkaline ethanol oxidation. <i>Journal of Materials Chemistry A</i> , 2022, 10, 1735-1741.	5.2	35
100	Partially inverse spinel ZnFe_2O_4 with high saturation magnetization synthesized via a molten salt route. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	34
101	Effect of Rutile Content on the Catalytic Performance of Ru/TiO_2 Catalyst for Low-Temperature CO_2 Methanation. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 14288-14296.	3.2	34
102	Novel hydrogen storage properties of palladium nanocrystals activated by a pentagonal cyclic twinned structure. <i>Nano Research</i> , 2015, 8, 2698-2705.	5.8	33
103	Ternary Alloys Encapsulated within Different MOFs via a Self-Sacrificing Template Process: A Potential Platform for the Investigation of Size-Selective Catalytic Performances. <i>Small</i> , 2017, 13, 1700683.	5.2	31
104	A nano-reactor based on $\text{PtNi@metal-organic framework}$ composites loaded with polyoxometalates for hydrogenation–esterification tandem reactions. <i>Nanoscale</i> , 2019, 11, 3292-3299.	2.8	31
105	Composition-tunable synthesis of Pt-Cu octahedral alloy nanocrystals from PtCu to PtCu_3 via underpotential-deposition-like process and their electro-catalytic properties. <i>RSC Advances</i> , 2015, 5, 18153-18158.	1.7	30
106	Twin-Crystal Nature of the Single-Crystal-Like Branched Cu_2O Particles. <i>Journal of Physical Chemistry C</i> , 2008, 112, 13405-13409.	1.5	29
107	Sierpinski gasket-like Pt-Ag octahedral alloy nanocrystals with enhanced electrocatalytic activity and stability. <i>Nano Energy</i> , 2019, 61, 397-403.	8.2	29
108	An anionic <i>sod</i> -type terbium-MOF with extra-large cavities for effective anthocyanin extraction and methyl viologen detection. <i>Chemical Communications</i> , 2018, 54, 5972-5975.	2.2	28

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109	One-step synthesis of thermally stable artificial multienzyme cascade system for efficient enzymatic electrochemical detection. <i>Nano Research</i> , 2019, 12, 3031-3036.	5.8	28
110	The preparation of spiral ZnO nanostructures by top-down wet-chemical etching and their related properties. <i>Journal of Materials Chemistry</i> , 2012, 22, 10924.	6.7	27
111	Probing the structural flexibility of MOFs by constructing metal oxide@MOF-based heterostructures for size-selective photoelectrochemical response. <i>Nanoscale</i> , 2016, 8, 13181-13185.	2.8	27
112	Oxidative Stability Matters: A Case Study of Palladium Hydride Nanosheets for Alkaline Fuel Cells. <i>Journal of the American Chemical Society</i> , 2022, 144, 8106-8114.	6.6	27
113	Synthesis of composition-tunable octahedral Pt@Cu alloy nanocrystals by controlling reduction kinetics of metal precursors. <i>Science Bulletin</i> , 2015, 60, 1002-1008.	4.3	26
114	Templated synthesis of diluted magnetic semiconductors using transition metal ion-doped metal-organic frameworks: the case of Co-doped ZnO. <i>CrystEngComm</i> , 2016, 18, 4121-4126.	1.3	26
115	Real-space imaging with pattern recognition of a ligand-protected Ag ₃₇₄ nanocluster at sub-molecular resolution. <i>Nature Communications</i> , 2018, 9, 2948.	5.8	26
116	Efficient oxygen reduction on sandwich-like metal@N-C composites with ultrafine Fe nanoparticles embedded in N-doped carbon nanotubes grafted on graphene sheets. <i>Nanoscale</i> , 2019, 11, 12610-12618.	2.8	26
117	Two-Dimensionally Assembled Pd@Pt@Ir Supernanosheets with Subnanometer Interlayer Spacings toward High-Efficiency and Durable Water Splitting. <i>ACS Catalysis</i> , 2022, 12, 5305-5315.	5.5	26
118	One-step construction of ZnS/C and CdS/C one-dimensional core-shell nanostructures. <i>Journal of Materials Chemistry</i> , 2007, 17, 1326-1330.	6.7	23
119	Au@Cu alloy bridged synthesis and optoelectronic properties of Au@Cu ₂ Se core-shell hybrid nanostructures. <i>Journal of Materials Chemistry</i> , 2012, 22, 1765-1769.	6.7	23
120	In Situ STM Studies on the Underpotential Deposition of Antimony on Au(111) and Au(100) in a BMIBF ₄ Ionic Liquid. <i>Journal of Physical Chemistry C</i> , 2007, 111, 10467-10477.	1.5	22
121	Efficiently enhancing the photocatalytic activity of faceted TiO ₂ nanocrystals by selectively loading Ir-Fe ₂ O ₃ and Pt co-catalysts. <i>RSC Advances</i> , 2016, 6, 29794-29801.	1.7	22
122	Excavated RhNi alloy nanobranches enable superior CO-tolerance and CO ₂ selectivity at low potentials toward ethanol electro-oxidation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 26266-26271.	5.2	22
123	Excavated Rh nanobranches boost ethanol electro-oxidation. <i>Materials Today Energy</i> , 2019, 11, 120-127.	2.5	22
124	Facile synthesis of (Ni,Co) _x Fe _{3-x} O ₄ core@shell chain structures and (Ni,Co) _x Fe _{3-x} O ₄ /graphene composites with enhanced microwave absorption. <i>RSC Advances</i> , 2015, 5, 70849-70855.	1.7	21
125	Synthesis of hollow rod-like hierarchical structures assembled by CoFe/C nanosheets for enhanced microwave absorption. <i>Journal of Materials Chemistry C</i> , 2021, 9, 13860-13868.	2.7	21
126	Equilibrated PtIr/IrO _x Atomic Heterojunctions on Ultrafine 1D Nanowires Enable Superior Dual-Enzyme Electrocatalysis for Overall Water Splitting. <i>Small</i> , 2022, 18, e2201333.	5.2	21

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127	Excavated Cubic Platinum-Tin Alloy Nanocrystals Constructed from Ultrathin Nanosheets with Enhanced Electrocatalytic Activity. <i>Angewandte Chemie</i> , 2016, 128, 9167-9171.	1.6	20
128	Palladium NPs supported on sulfonic acid functionalized metal-organic frameworks as catalysts for biomass cascade reactions. <i>Dalton Transactions</i> , 2019, 48, 5515-5519.	1.6	20
129	Understanding the Formation of Pentagonal Cyclic Twinned Crystal from the Solvent Dependent Assembly of Au Nanocrystals into Their Colloidal Crystals. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3440-3444.	2.1	19
130	A comparative investigation of electrocatalysis at Pt monolayers on shape-controlled Au nanocrystals: facet effect versus strain effect. <i>Journal of Materials Chemistry A</i> , 2016, 4, 15845-15850.	5.2	19
131	Solvent-dependent evolution of cyclic penta-twinned rhodium icosahedral nanocrystals and their enhanced catalytic properties. <i>Nano Research</i> , 2018, 11, 656-664.	5.8	19
132	Rationally Armoring PtCu Alloy with Metal-Organic Frameworks as Highly Selective Nonenzyme Electrochemical Sensor. <i>Advanced Materials Interfaces</i> , 2018, 5, 1801168.	1.9	19
133	Synthesis of Pd _{0.43} nanocrystals with different surface structures and their catalytic activities towards formic acid electro-oxidation. <i>Science China Materials</i> , 2020, 63, 375-382.	3.5	19
134	Facile Synthesis of Pd@Pt ₃ Core-Shell Octahedra with a Clean Surface and Thus Enhanced Activity toward Oxygen Reduction. <i>ChemCatChem</i> , 2017, 9, 414-419.	1.8	18
135	Synthesis of single-crystal hyperbranched rhodium nanoplates with remarkable catalytic properties. <i>Science China Materials</i> , 2017, 60, 685-696.	3.5	18
136	Morphology evolution of NaTaO ₃ submicrometer single-crystals: from cubes to quasi-spheres. <i>Science China Materials</i> , 2015, 58, 281-288.	3.5	17
137	Shape-controlled synthesis of CO-free Pd nanocrystals with the use of formic acid as a reducing agent. <i>Chemical Communications</i> , 2016, 52, 12594-12597.	2.2	17
138	Influence of reconstruction on the structure of self-assembled normal-alkane monolayers on Au(111) surfaces. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 1486-1489.	1.3	16
139	Cu ²⁺ underpotential-deposition assisted synthesis of Au and Au-Pd alloy nanocrystals with systematic shape evolution. <i>CrystEngComm</i> , 2015, 17, 5556-5561.	1.3	16
140	Facile Synthesis of Pt-Pd Alloy Nanocages and Pt Nanorings by Templating with Pd Nanoplates. <i>ChemNanoMat</i> , 2016, 2, 1086-1091.	1.5	16
141	Hollow porous rhodium nanoballs. <i>Chemical Communications</i> , 2019, 55, 4989-4992.	2.2	15
142	Heterogeneous fcc-Pt-hcp-PtBi Thick-Edge Nanoplates with Enhanced Activity for Formic Acid Oxidation. <i>ACS Applied Energy Materials</i> , 2021, 4, 9190-9197.	2.5	15
143	Spontaneous transformation of selenium from monoclinic micro-balls to trigonal nano-rods in ethanol solution. <i>Journal of Materials Chemistry</i> , 2003, 13, 1447.	6.7	14
144	In situ construction and post-electrolysis structural study of porous Ni ₂ P@C nanosheet arrays for efficient water splitting. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 2960-2968.	3.0	14

#	ARTICLE	IF	CITATIONS
145	Structure and multiferroic properties of Bi(1-x)Dy _x Fe _{0.90} Mg _{0.05} Ti _{0.05} O ₃ solid solution. Journal of Applied Physics, 2013, 113, .	1.1	13
146	Hot-electron-induced CO ₂ hydrogenation on Au@AuRu/g-C ₃ N ₄ plasmonic bimetallic semiconductor heterostructure. Chemical Engineering Journal, 2022, 443, 136482.	6.6	13
147	Tunable magnetic pole inversion in multiferroic BiFeO ₃ ∕DyFeO ₃ solid solution. Journal of Materials Chemistry C, 2017, 5, 4063-4067.	2.7	12
148	Preparation of 3D hierarchical porous Co ₃ O ₄ nanostructures with enhanced performance in lithium-ion batteries. RSC Advances, 2018, 8, 3218-3224.	1.7	12
149	Amplified Interfacial Effect in an Atomically Dispersed RuO _x ∕Pd 2D Inverse Nanocatalyst for High-Performance Oxygen Reduction. Angewandte Chemie, 2021, 133, 16229-16236.	1.6	12
150	A surfactant free synthesis and formation mechanism of hollow Cu ₂ O nanocubes using Cl ⁻ ions as the morphology regulator. RSC Advances, 2015, 5, 61421-61425.	1.7	11
151	Origin of symmetry breaking in the seed-mediated growth of bi-metal nano-heterostructures. Science Bulletin, 2018, 63, 892-899.	4.3	10
152	Dynamic Phase Transition of Iron Oxycarbide Facilitated by Pt Nanoparticles for Promoting the Reverse Water Gas Shift Reaction. ACS Catalysis, 2021, 11, 14586-14595.	5.5	10
153	PtCo-excavated rhombic dodecahedral nanocrystals for efficient electrocatalysis. Nanoscale Advances, 2020, 2, 4881-4886.	2.2	9
154	Rational design of two-dimensional flaky Fe/void/C composites for enhanced microwave absorption properties. Dalton Transactions, 2022, 51, 8705-8713.	1.6	9
155	Chemically initiated liquid-like behavior and fabrication of periodic wavy Cu/CuAu nanocables with enhanced catalytic properties. Nanoscale, 2018, 10, 9012-9020.	2.8	8
156	Co ₃ O ₄ nanocrystals as matrices for the detection of amino acids, harmful additives and pesticide residues by MALDI-TOF MS. Talanta, 2022, 242, 123299.	2.9	8
157	A simple solvothermal route towards the morphological control of ZnO and tuning of its optical and photocatalytic properties. Science China Chemistry, 2010, 53, 1711-1717.	4.2	7
158	Optimization of gold-palladium core-shell nanowires towards H ₂ O ₂ reduction by adjusting shell thickness. Nanoscale Advances, 2020, 2, 785-791.	2.2	7
159	Ultrafast Anisotropic Evolution of Photoconductivity in Sb ₂ Se ₃ Single Crystals. Journal of Physical Chemistry Letters, 2022, 13, 4988-4994.	2.1	7
160	Morphology led high dispersion of Pt icosahedral nanocrystals on carbon nanotubes for enhanced electro-catalytic activity and stability. Chemical Communications, 2018, 54, 10855-10858.	2.2	6
161	Tailoring the Chemical Potential of Crystal Growth Units to Tune the Bulk Structure of Nanocrystals. Small Methods, 2021, 5, e2000447.	4.6	6
162	Concave nano-octahedral alloys: wet chemical synthesis of bimetallic Pt-Pd nanocrystals with high-index {hkl} Facets. Dalton Transactions, 2021, 50, 12083-12087.	1.6	6

#	ARTICLE	IF	CITATIONS
163	Improvement of silicon etching resolution using the confined etchant layer technique. Science Bulletin, 1997, 42, 1318-1319.	1.7	5
164	Surface structure-dependent electrocatalytic reduction of CO ₂ to C1 products on SnO ₂ catalysts. Sustainable Energy and Fuels, 2020, 4, 600-606.	2.5	5
165	Syntheses, crystal structures, and magnetic properties of three coordination polymers based on manganese(II) and 2,6-naphthalenedicarboxylate. Transition Metal Chemistry, 2008, 33, 1019-1026.	0.7	4
166	Facile synthesis of clean PtAg dendritic nanostructures with enhanced electrochemical properties. Inorganic Chemistry Frontiers, 2020, 7, 1250-1256.	3.0	4
167	Platinum-Tin/Tin Oxide/CNT Catalysts for High-Performance Electrocatalytic Ethanol Oxidation. Chemistry - A European Journal, 2022, 28, .	1.7	4
168	Ag clusters electrochemically reduced in stearic acid Langmuir-Blodgett films and their structural characterizations. Science in China Series B: Chemistry, 1997, 40, 397-404.	0.8	3
169	Synthesis and characterization of a nickel metavanadate complex: Ni(pz)(V2O6) (pz = pyrazine). Journal of Coordination Chemistry, 2008, 61, 1575-1581.	0.8	3
170	Polymorphic structures and properties of lead chromium phosphate Pb3Cr2(PO4)4. Journal of Materials Chemistry, 2009, 19, 6034.	6.7	3
171	A New Catalytic System with Balanced Activity and Durability toward Oxygen Reduction. ChemCatChem, 2020, 12, 4817-4824.	1.8	3
172	Size and Shape Controlled Synthesis of Pd Nanocrystals. Physical Sciences Reviews, 2018, 3, .	0.8	2
173	Scanning electrochemical microscopy – development of instrumentation utilizing piezo-bimorph X-Y scanners. Chinese Journal of Chemistry, 2010, 13, 105-111.	2.6	1
174	Facile Synthesis of Pd@Pt3- 4L Core-Shell Octahedra with a Clean Surface and Thus Enhanced Activity toward Oxygen Reduction. ChemCatChem, 2017, 9, 376-376.	1.8	0