

Zhao-Xiong Xie

List of Publications by Year in descending order

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174
papers

16,147
citations

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all docs

179
docs citations

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times ranked

18397
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Platinum-Tin/Tin Oxide/CNT Catalysts for High-Performance Electrocatalytic Ethanol Oxidation. Chemistry - A European Journal, 2022, 28, . | 1.7 | 4 |
| 2 | Introducing oxophilic metal and interstitial hydrogen into the Pd lattice to boost electrochemical performance for alkaline ethanol oxidation. Journal of Materials Chemistry A, 2022, 10, 1735-1741. | 5.2 | 35 |
| 3 | Pt Particle Size Affects Both the Charge Separation and Water Reduction Efficiencies of CdS-Pt Nanorod Photocatalysts for Light Driven H ₂ Generation. Journal of the American Chemical Society, 2022, 144, 2705-2715. | 6.6 | 80 |
| 4 | 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 |
| 5 | Single-Atom Molybdenum Engineered Platinum Nanocatalyst for Boosted Alkaline Hydrogen Oxidation. Advanced Energy Materials, 2022, 12, . | 10.2 | 53 |
| 6 | Hot-electron-induced CO ₂ hydrogenation on Au@AuRu/g-C ₃ N ₄ plasmonic bimetal-semiconductor heterostructure. Chemical Engineering Journal, 2022, 443, 136482. | 6.6 | 13 |
| 7 | Equilibrated PtIr/IrO _x Atomic Heterojunctions on Ultrafine 1D Nanowires Enable Superior Dual-Step Electrocatalysis for Overall Water Splitting. Small, 2022, 18, e2201333. | 5.2 | 21 |
| 8 | Two-Dimensionally Assembled Pd-Pt-Ir Supernanosheets with Subnanometer Interlayer Spacings toward High-Efficiency and Durable Water Splitting. ACS Catalysis, 2022, 12, 5305-5315. | 5.5 | 26 |
| 9 | Rational design of two-dimensional flaky Fe/void/C composites for enhanced microwave absorption properties. Dalton Transactions, 2022, 51, 8705-8713. | 1.6 | 9 |
| 10 | Oxidative Stability Matters: A Case Study of Palladium Hydride Nanosheets for Alkaline Fuel Cells. Journal of the American Chemical Society, 2022, 144, 8106-8114. | 6.6 | 27 |
| 11 | Ultrafast Anisotropic Evolution of Photoconductivity in Sb ₂ Se ₃ Single Crystals. Journal of Physical Chemistry Letters, 2022, 13, 4988-4994. | 2.1 | 7 |
| 12 | Tailoring the Chemical Potential of Crystal Growth Units to Tune the Bulk Structure of Nanocrystals. Small Methods, 2021, 5, e2000447. | 4.6 | 6 |
| 13 | Synthesis of hollow rod-like hierarchical structures assembled by CoFe/C nanosheets for enhanced microwave absorption. Journal of Materials Chemistry C, 2021, 9, 13860-13868. | 2.7 | 21 |
| 14 | Concave nano-octahedral alloys: wet chemical synthesis of bimetallic Pt-Pd nanocrystals with high-index {hhl} Facets. Dalton Transactions, 2021, 50, 12083-12087. | 1.6 | 6 |
| 15 | Plasmonic nanoreactors regulating selective oxidation by energetic electrons and nanoconfined thermal fields. Science Advances, 2021, 7, . | 4.7 | 43 |
| 16 | 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 |
| 17 | Amplified Interfacial Effect in an Atomically Dispersed RuO _x -Pd 2D Inverse Nanocatalyst for High-Performance Oxygen Reduction. Angewandte Chemie - International Edition, 2021, 60, 16093-16100. | 7.2 | 49 |
| 18 | Atomically dispersed Pt/CeO ₂ catalyst with superior CO selectivity in reverse water gas shift reaction. Applied Catalysis B: Environmental, 2021, 291, 120101. | 10.8 | 75 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Heterogeneous <i>fcc</i> -Pt/ <i>hcp</i> -PtBi Thick-Edge Nanoplates with Enhanced Activity for Formic Acid Oxidation. ACS Applied Energy Materials, 2021, 4, 9190-9197. | 2.5 | 15 |
| 20 | Trimetallic PtNiCo branched nanocages as efficient and durable bifunctional electrocatalysts towards oxygen reduction and methanol oxidation reactions. Journal of Materials Chemistry A, 2021, 9, 23444-23450. | 5.2 | 49 |
| 21 | Effect of Rutile Content on the Catalytic Performance of Ru/TiO ₂ Catalyst for Low-Temperature CO ₂ Methanation. ACS Sustainable Chemistry and Engineering, 2021, 9, 14288-14296. | 3.2 | 34 |
| 22 | 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 |
| 23 | Highly efficient ethylene production via electrocatalytic hydrogenation of acetylene under mild conditions. Nature Communications, 2021, 12, 7072. | 5.8 | 51 |
| 24 | Synthesis of PdH _{0.43} nanocrystals with different surface structures and their catalytic activities towards formic acid electro-oxidation. Science China Materials, 2020, 63, 375-382. | 3.5 | 19 |
| 25 | 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 |
| 26 | Synthesis of sandwich-like Co ₁₅ Fe ₈₅ @C/RGO multicomponent composites with tunable electromagnetic parameters and microwave absorption performance. Nanoscale, 2020, 12, 18790-18799. | 2.8 | 39 |
| 27 | Biomimetic Metal-Organic Framework Composite-Mediated Cascade Catalysis for Synergistic Bacteria Killing. ACS Applied Materials & Interfaces, 2020, 12, 36996-37005. | 4.0 | 78 |
| 28 | Critical Roles of Doping Cl on Cu ₂ O Nanocrystals for Direct Epoxidation of Propylene by Molecular Oxygen. Journal of the American Chemical Society, 2020, 142, 14134-14141. | 6.6 | 51 |
| 29 | PtCo-excavated rhombic dodecahedral nanocrystals for efficient electrocatalysis. Nanoscale Advances, 2020, 2, 4881-4886. | 2.2 | 9 |
| 30 | Efficient Hot Electron Transfer from Small Au Nanoparticles. Nano Letters, 2020, 20, 4322-4329. | 4.5 | 92 |
| 31 | The function of metal-organic frameworks in the application of MOF-based composites. Nanoscale Advances, 2020, 2, 2628-2647. | 2.2 | 136 |
| 32 | Edge Enrichment of Ultrathin 2D PdPtCu Trimetallic Nanostructures Effectuates Top-Ranked Ethanol Electrooxidation. Nano Letters, 2020, 20, 5458-5464. | 4.5 | 90 |
| 33 | <i>In situ</i> construction and post-electrolysis structural study of porous Ni ₂ P@C nanosheet arrays for efficient water splitting. Inorganic Chemistry Frontiers, 2020, 7, 2960-2968. | 3.0 | 14 |
| 34 | A New Catalytic System with Balanced Activity and Durability toward Oxygen Reduction. ChemCatChem, 2020, 12, 4817-4824. | 1.8 | 3 |
| 35 | Facile synthesis of clean PtAg dendritic nanostructures with enhanced electrochemical properties. Inorganic Chemistry Frontiers, 2020, 7, 1250-1256. | 3.0 | 4 |
| 36 | Quatermetallic Pt-based ultrathin nanowires intensified by Rh enable highly active and robust electrocatalysts for methanol oxidation. Nano Energy, 2020, 71, 104623. | 8.2 | 64 |

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|----|---|-----|-----------|
| 37 | Optimization of gold@palladium core-shell nanowires towards H ₂ O ₂ reduction by adjusting shell thickness. <i>Nanoscale Advances</i> , 2020, 2, 785-791. | 2.2 | 7 |
| 38 | Nanosheet-assembled, hollowed-out hierarchical Fe ₃ O ₄ microrods for high-performance gas sensing. <i>Journal of Materials Chemistry A</i> , 2020, 8, 3754-3762. | 5.2 | 43 |
| 39 | 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 |
| 40 | 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 |
| 41 | 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 |
| 42 | 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 |
| 43 | A nano-reactor based on PtNi@metal-organic framework composites loaded with polyoxometalates for hydrogenation-esterification tandem reactions. <i>Nanoscale</i> , 2019, 11, 3292-3299. | 2.8 | 31 |
| 44 | 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 |
| 45 | 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 |
| 46 | 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 |
| 47 | Hollow porous rhodium nanoballs. <i>Chemical Communications</i> , 2019, 55, 4989-4992. | 2.2 | 15 |
| 48 | 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 |
| 49 | Excavated Rh nanobranches boost ethanol electro-oxidation. <i>Materials Today Energy</i> , 2019, 11, 120-127. | 2.5 | 22 |
| 50 | Monocrystalline platinum-nickel branched nanocages with enhanced catalytic performance towards the hydrogen evolution reaction. <i>Nanoscale</i> , 2018, 10, 5072-5077. | 2.8 | 39 |
| 51 | Chemically initiated liquid-like behavior and fabrication of periodic wavy Cu/CuAu nanocables with enhanced catalytic properties. <i>Nanoscale</i> , 2018, 10, 9012-9020. | 2.8 | 8 |
| 52 | Preparation of 3D hierarchical porous Co ₃ O ₄ nanostructures with enhanced performance in lithium-ion batteries. <i>RSC Advances</i> , 2018, 8, 3218-3224. | 1.7 | 12 |
| 53 | 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 |
| 54 | 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 |

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|----|--|-----|-----------|
| 55 | 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 |
| 56 | 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 |
| 57 | 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 |
| 58 | 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 |
| 59 | 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 |
| 60 | 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 |
| 61 | An anionic <i>iodo</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 |
| 62 | Origin of symmetry breaking in the seed-mediated growth of bi-metal nano-heterostructures. <i>Science Bulletin</i> , 2018, 63, 892-899. | 4.3 | 10 |
| 63 | 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 |
| 64 | 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 |
| 65 | Size and Shape Controlled Synthesis of Pd Nanocrystals. <i>Physical Sciences Reviews</i> , 2018, 3, . | 0.8 | 2 |
| 66 | 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 |
| 67 | Morphology led high dispersion of Pt icosahedral nanocrystals on carbon nanotubes for enhanced electro-catalytic activity and stability. <i>Chemical Communications</i> , 2018, 54, 10855-10858. | 2.2 | 6 |
| 68 | Facile Synthesis of Pd@Pt ₃ -4L Core-Shell Octahedra with a Clean Surface and Thus Enhanced Activity toward Oxygen Reduction. <i>ChemCatChem</i> , 2017, 9, 376-376. | 1.8 | 0 |
| 69 | 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 |
| 70 | 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 |
| 71 | The synergy between atomically dispersed Pd and cerium oxide for enhanced catalytic properties. <i>Nanoscale</i> , 2017, 9, 6643-6648. | 2.8 | 63 |
| 72 | 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 |

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|----|---|------|-----------|
| 73 | Tunable magnetic pole inversion in multiferroic BiFeO ₃ ∕DyFeO ₃ solid solution. <i>Journal of Materials Chemistry C</i> , 2017, 5, 4063-4067. | 2.7 | 12 |
| 74 | Facile Synthesis of Pd@Pt ₃ ∕Pt ₄ Core∕Shell Octahedra with a Clean Surface and Thus Enhanced Activity toward Oxygen Reduction. <i>ChemCatChem</i> , 2017, 9, 414-419. | 1.8 | 18 |
| 75 | 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 |
| 76 | 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 |
| 77 | Synthesis and enhanced electromagnetic wave absorption performance of amorphous Co _x Fe _{10-x} alloys. <i>Journal of Alloys and Compounds</i> , 2017, 726, 1255-1261. | 2.8 | 35 |
| 78 | Synthesis of single-crystal hyperbranched rhodium nanoplates with remarkable catalytic properties. <i>Science China Materials</i> , 2017, 60, 685-696. | 3.5 | 18 |
| 79 | 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 |
| 80 | A Phytic Acid Induced Super-Amphiphilic Multifunctional 3D Graphene-Based Foam. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 3936-3941. | 7.2 | 176 |
| 81 | 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 |
| 82 | Well-faceted noble-metal nanocrystals with nonconvex polyhedral shapes. <i>Chemical Society Reviews</i> , 2016, 45, 3207-3220. | 18.7 | 111 |
| 83 | 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 |
| 84 | 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 |
| 85 | Engineering high-energy surfaces of noble metal nanocrystals with enhanced catalytic performances. <i>Nano Today</i> , 2016, 11, 661-677. | 6.2 | 76 |
| 86 | 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 |
| 87 | 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 |
| 88 | 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 |
| 89 | 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 |
| 90 | 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 |

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|-----|--|-----|-----------|
| 91 | Ag@Au Concave Cuboctahedra: A Unique Probe for Monitoring Au-Catalyzed Reduction and Oxidation Reactions by Surface-Enhanced Raman Spectroscopy. ACS Nano, 2016, 10, 2607-2616. | 7.3 | 125 |
| 92 | Pt-Based Icosahedral Nanocages: Using a Combination of {111} Facets, Twin Defects, and Ultrathin Walls to Greatly Enhance Their Activity toward Oxygen Reduction. Nano Letters, 2016, 16, 1467-1471. | 4.5 | 228 |
| 93 | Efficiently enhancing the photocatalytic activity of faceted TiO ₂ nanocrystals by selectively loading Ir-Fe ₂ O ₃ and Pt co-catalysts. RSC Advances, 2016, 6, 29794-29801. | 1.7 | 22 |
| 94 | A facile surfactant-free synthesis of Rh flower-like nanostructures constructed from ultrathin nanosheets and their enhanced catalytic properties. Nano Research, 2016, 9, 849-856. | 5.8 | 56 |
| 95 | Size controllable redispersion of sintered Au nanoparticles by using iodohydrocarbon and its implications. Chemical Science, 2016, 7, 3181-3187. | 3.7 | 46 |
| 96 | Enhancing photo-reduction quantum efficiency using quasi-type II core/shell quantum dots. Chemical Science, 2016, 7, 4125-4133. | 3.7 | 35 |
| 97 | Ultrafast Photoinduced Interfacial Proton Coupled Electron Transfer from CdSe Quantum Dots to 4,4'-Bipyridine. Journal of the American Chemical Society, 2016, 138, 884-892. | 6.6 | 52 |
| 98 | Novel hydrogen storage properties of palladium nanocrystals activated by a pentagonal cyclic twinned structure. Nano Research, 2015, 8, 2698-2705. | 5.8 | 33 |
| 99 | Pd@Pt Core-Shell Concave Decahedra: A Class of Catalysts for the Oxygen Reduction Reaction with Enhanced Activity and Durability. Journal of the American Chemical Society, 2015, 137, 15036-15042. | 6.6 | 296 |
| 100 | Engineering a high energy surface of anatase TiO ₂ crystals towards enhanced performance for energy conversion and environmental applications. RSC Advances, 2015, 5, 20396-20409. | 1.7 | 79 |
| 101 | Composition-tunable synthesis of Pt-Cu octahedral alloy nanocrystals from PtCu to PtCu ₃ via underpotential-deposition-like process and their electro-catalytic properties. RSC Advances, 2015, 5, 18153-18158. | 1.7 | 30 |
| 102 | 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. CrystEngComm, 2015, 17, 6308-6313. | 1.3 | 159 |
| 103 | Platinum-based nanocages with subnanometer-thick walls and well-defined, controllable facets. Science, 2015, 349, 412-416. | 6.0 | 854 |
| 104 | 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 |
| 105 | MOF-Derived Porous Co/C Nanocomposites with Excellent Electromagnetic Wave Absorption Properties. ACS Applied Materials & Interfaces, 2015, 7, 13604-13611. | 4.0 | 687 |
| 106 | Palladium-platinum core-shell icosahedra with substantially enhanced activity and durability towards oxygen reduction. Nature Communications, 2015, 6, 7594. | 5.8 | 440 |
| 107 | Cu ²⁺ underpotential-deposition assisted synthesis of Au and Au-Pd alloy nanocrystals with systematic shape evolution. CrystEngComm, 2015, 17, 5556-5561. | 1.3 | 16 |
| 108 | Synthesis of composition-tunable octahedral Pt-Cu alloy nanocrystals by controlling reduction kinetics of metal precursors. Science Bulletin, 2015, 60, 1002-1008. | 4.3 | 26 |

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|-----|--|-----|-----------|
| 109 | 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 |
| 110 | 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 |
| 111 | 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 |
| 112 | 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 |
| 113 | A comparative study of crystallographic van der Waals radii. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2014, 229, 517-523. | 0.4 | 35 |
| 114 | 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 |
| 115 | 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 |
| 116 | Supersaturation-Controlled Shape Evolution of Fe ₂ O ₃ Nanocrystals and Their Facet-Dependent Catalytic and Sensing Properties. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 12505-12514. | 4.0 | 196 |
| 117 | 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 |
| 118 | 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 |
| 119 | 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 |
| 120 | Structure and multiferroic properties of Bi(1-x)Dy _x Fe _{0.90} Mg _{0.05} Ti _{0.05} O ₃ solid solution. <i>Journal of Applied Physics</i> , 2013, 113, . | 1.1 | 13 |
| 121 | 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 |
| 122 | Controlled synthesis of concave Cu ₂ O microcrystals enclosed by {hhl} high-index facets and enhanced catalytic activity. <i>Journal of Materials Chemistry A</i> , 2013, 1, 282-287. | 5.2 | 98 |
| 123 | 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 |
| 124 | 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 |
| 125 | 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 |
| 126 | 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 |

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|-----|---|------|-----------|
| 127 | Au@Cu alloy bridged synthesis and optoelectronic properties of Au@CuInSe ₂ core-shell hybrid nanostructures. Journal of Materials Chemistry, 2012, 22, 1765-1769. | 6.7 | 23 |
| 128 | Carbonate ions-assisted syntheses of anatase TiO ₂ nanoparticles exposed with high energy (001) facets. RSC Advances, 2012, 2, 3251. | 1.7 | 80 |
| 129 | Synthesis and shape-dependent catalytic properties of CeO ₂ nanocubes and truncated octahedra. CrystEngComm, 2012, 14, 7579. | 1.3 | 88 |
| 130 | Synthesis and room temperature four-state memory prototype of Sr ₃ Co ₂ Fe ₂₄ O ₄₁ multiferroics. Applied Physics Letters, 2012, 101, 122903. | 1.5 | 48 |
| 131 | The preparation of spiral ZnO nanostructures by top-down wet-chemical etching and their related properties. Journal of Materials Chemistry, 2012, 22, 10924. | 6.7 | 27 |
| 132 | Synthesis of layered protonated titanate hierarchical microspheres with extremely large surface area for selective adsorption of organic dyes. CrystEngComm, 2012, 14, 7715. | 1.3 | 42 |
| 133 | Synthesis of spatially uniform metal alloys nanocrystals via a diffusion controlled growth strategy: The case of Au-Pd alloy trisoctahedral nanocrystals with tunable composition. Nano Research, 2012, 5, 618-629. | 5.8 | 36 |
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