

Qinghua Zhang

List of Publications by Year in descending order

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570
papers

42,839
citations

1980

101
h-index

4101

175
g-index

593
all docs

593
docs citations

593
times ranked

32491
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Ultrafine jagged platinum nanowires enable ultrahigh mass activity for the oxygen reduction reaction. <i>Science</i> , 2016, 354, 1414-1419. | 6.0 | 1,292 |
| 2 | Enhanced strength and ductility in a high-entropy alloy via ordered oxygen complexes. <i>Nature</i> , 2018, 563, 546-550. | 13.7 | 988 |
| 3 | An Electrolytic Zn-MnO ₂ Battery for High-Voltage and Scalable Energy Storage. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7823-7828. | 7.2 | 787 |
| 4 | Direct observation of noble metal nanoparticles transforming to thermally stable single atoms. <i>Nature Nanotechnology</i> , 2018, 13, 856-861. | 15.6 | 741 |
| 5 | Ultrahigh-energy density lead-free dielectric films via polymorphic nanodomain design. <i>Science</i> , 2019, 365, 578-582. | 6.0 | 662 |
| 6 | Recent advances in ionic liquid catalysis. <i>Green Chemistry</i> , 2011, 13, 2619. | 4.6 | 619 |
| 7 | Single-Atom Vacancy Defect to Trigger High-Efficiency Hydrogen Evolution of MoS ₂ . <i>Journal of the American Chemical Society</i> , 2020, 142, 4298-4308. | 6.6 | 585 |
| 8 | Electric-field control of tri-state phase transformation with a selective dual-ion switch. <i>Nature</i> , 2017, 546, 124-128. | 13.7 | 551 |
| 9 | Giant Energy Density and Improved Discharge Efficiency of Solution-Processed Polymer Nanocomposites for Dielectric Energy Storage. <i>Advanced Materials</i> , 2016, 28, 2055-2061. | 11.1 | 534 |
| 10 | Matching the kinetics of natural enzymes with a single-atom iron nanozyme. <i>Nature Catalysis</i> , 2021, 4, 407-417. | 16.1 | 517 |
| 11 | Ultrahigh Energy Density of Polymer Nanocomposites Containing BaTiO ₃ @TiO ₂ Nanofibers by Atomic-Scale Interface Engineering. <i>Advanced Materials</i> , 2015, 27, 819-824. | 11.1 | 503 |
| 12 | Experimental Realization of an Intrinsic Magnetic Topological Insulator [*] . <i>Chinese Physics Letters</i> , 2019, 36, 076801. | 1.3 | 457 |
| 13 | A General Route to Prepare Low-Ruthenium-Content Bimetallic Electrocatalysts for pH-Universal Hydrogen Evolution Reaction by Using Carbon Quantum Dots. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 1718-1726. | 7.2 | 452 |
| 14 | A universal ligand mediated method for large scale synthesis of transition metal single atom catalysts. <i>Nature Communications</i> , 2019, 10, 4585. | 5.8 | 441 |
| 15 | Extra storage capacity in transition metal oxide lithium-ion batteries revealed by in situ magnetometry. <i>Nature Materials</i> , 2021, 20, 76-83. | 13.3 | 432 |
| 16 | Systematic design of superaerophobic nanotube-array electrode comprised of transition-metal sulfides for overall water splitting. <i>Nature Communications</i> , 2018, 9, 2452. | 5.8 | 431 |
| 17 | Giant energy density and high efficiency achieved in bismuth ferrite-based film capacitors via domain engineering. <i>Nature Communications</i> , 2018, 9, 1813. | 5.8 | 408 |
| 18 | Single-atom cobalt array bound to distorted 1T MoS ₂ with ensemble effect for hydrogen evolution catalysis. <i>Nature Communications</i> , 2019, 10, 5231. | 5.8 | 371 |

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|----|--|------|-----------|
| 19 | A Nanozyme with Photo-Enhanced Dual Enzyme-Like Activities for Deep Pancreatic Cancer Therapy. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 12624-12631. | 7.2 | 345 |
| 20 | Engineering the Atomic Interface with Single Platinum Atoms for Enhanced Photocatalytic Hydrogen Production. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 1295-1301. | 7.2 | 344 |
| 21 | Ru Modulation Effects in the Synthesis of Unique Rod-like Ni@Ni ₂ P-Ru Heterostructures and Their Remarkable Electrocatalytic Hydrogen Evolution Performance. <i>Journal of the American Chemical Society</i> , 2018, 140, 2731-2734. | 6.6 | 326 |
| 22 | A general synthesis approach for amorphous noble metal nanosheets. <i>Nature Communications</i> , 2019, 10, 4855. | 5.8 | 321 |
| 23 | Constructing NiCo/Fe ₃ O ₄ Heteroparticles within MOF-74 for Efficient Oxygen Evolution Reactions. <i>Journal of the American Chemical Society</i> , 2018, 140, 15336-15341. | 6.6 | 310 |
| 24 | Electrochemically activated spinel manganese oxide for rechargeable aqueous aluminum battery. <i>Nature Communications</i> , 2019, 10, 73. | 5.8 | 291 |
| 25 | Thermal Emitting Strategy to Synthesize Atomically Dispersed Pt Metal Sites from Bulk Pt Metal. <i>Journal of the American Chemical Society</i> , 2019, 141, 4505-4509. | 6.6 | 285 |
| 26 | Crystalline-Amorphous Interfaces Coupling of CoSe ₂ /CoP with Optimized d-Band Center and Boosted Electrocatalytic Hydrogen Evolution. <i>Advanced Materials</i> , 2022, 34, e2110631. | 11.1 | 283 |
| 27 | Rational Design of Fe-N/C Hybrid for Enhanced Nitrogen Reduction Electrocatalysis under Ambient Conditions in Aqueous Solution. <i>ACS Catalysis</i> , 2019, 9, 336-344. | 5.5 | 278 |
| 28 | Solid-Diffusion Synthesis of Single-Atom Catalysts Directly from Bulk Metal for Efficient CO ₂ Reduction. <i>Joule</i> , 2019, 3, 584-594. | 11.7 | 277 |
| 29 | Directly transforming copper (I) oxide bulk into isolated single-atom copper sites catalyst through gas-transport approach. <i>Nature Communications</i> , 2019, 10, 3734. | 5.8 | 276 |
| 30 | Ultrahigh energy storage in superparaelectric relaxor ferroelectrics. <i>Science</i> , 2021, 374, 100-104. | 6.0 | 276 |
| 31 | Photocatalytic CO ₂ Reduction to CO over Ni Single Atoms Supported on Defect-Rich Zirconia. <i>Advanced Energy Materials</i> , 2020, 10, 2002928. | 10.2 | 263 |
| 32 | Anionic Redox Reaction-Induced High-Capacity and Low-Strain Cathode with Suppressed Phase Transition. <i>Joule</i> , 2019, 3, 503-517. | 11.7 | 262 |
| 33 | Phase Modulation of (1T-MoSe ₂ /TiC Shell/Core Arrays via Nitrogen Doping for Highly Efficient Hydrogen Evolution Reaction. <i>Advanced Materials</i> , 2018, 30, e1802223. | 11.1 | 244 |
| 34 | 2D Electron Gas and Oxygen Vacancy Induced High Oxygen Evolution Performances for Advanced Co ₃ O ₄ /CeO ₂ Nanohybrids. <i>Advanced Materials</i> , 2019, 31, e1900062. | 11.1 | 242 |
| 35 | Silver Single-Atom Catalyst for Efficient Electrochemical CO ₂ Reduction Synthesized from Thermal Transformation and Surface Reconstruction. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 6170-6176. | 7.2 | 236 |
| 36 | A multifunctional gelatin-based aerogel with superior pollutants adsorption, oil/water separation and photocatalytic properties. <i>Chemical Engineering Journal</i> , 2019, 358, 1539-1551. | 6.6 | 235 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 37 | A Self-Forming Composite Electrolyte for Solid-State Sodium Battery with Ultralong Cycle Life. <i>Advanced Energy Materials</i> , 2017, 7, 1601196. | 10.2 | 231 |
| 38 | Designing flexible, smart and self-sustainable supercapacitors for portable/wearable electronics: from conductive polymers. <i>Chemical Society Reviews</i> , 2021, 50, 12702-12743. | 18.7 | 227 |
| 39 | High-Efficiency Oxygen Reduction to Hydrogen Peroxide Catalyzed by Nickel Single-Atom Catalysts with Tetradentate N ₂ O ₂ Coordination in a Three-Phase Flow Cell. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 13057-13062. | 7.2 | 222 |
| 40 | Atomic Engineering Catalyzed MnO ₂ Electrolysis Kinetics for a Hybrid Aqueous Battery with High Power and Energy Density. <i>Advanced Materials</i> , 2020, 32, e2001894. | 11.1 | 221 |
| 41 | Densely Isolated FeN ₄ Sites for Peroxidase Mimicking. <i>ACS Catalysis</i> , 2020, 10, 6422-6429. | 5.5 | 216 |
| 42 | Coordination Number Regulation of Molybdenum Single-Atom Nanozyme Peroxidase-like Specificity. <i>CheM</i> , 2021, 7, 436-449. | 5.8 | 216 |
| 43 | Mastering Surface Reconstruction of Metastable Spinel Oxides for Better Water Oxidation. <i>Advanced Materials</i> , 2019, 31, e1807898. | 11.1 | 215 |
| 44 | Regulating Pore Structure of Hierarchical Porous Waste Cork-Derived Hard Carbon Anode for Enhanced Na Storage Performance. <i>Advanced Energy Materials</i> , 2019, 9, 1902852. | 10.2 | 212 |
| 45 | Facet engineering accelerates spillover hydrogenation on highly diluted metal nanocatalysts. <i>Nature Nanotechnology</i> , 2020, 15, 848-853. | 15.6 | 210 |
| 46 | Silica-Gel-Confined Ionic Liquids: A New Attempt for the Development of Supported Nanoliquid Catalysis. <i>Chemistry - A European Journal</i> , 2005, 11, 5279-5288. | 1.7 | 209 |
| 47 | RhSe ₂ : A Superior 3D Electrocatalyst with Multiple Active Facets for Hydrogen Evolution Reaction in Both Acid and Alkaline Solutions. <i>Advanced Materials</i> , 2021, 33, e2007894. | 11.1 | 205 |
| 48 | Synergistic Doping and Intercalation: Realizing Deep Phase Modulation on MoS ₂ Arrays for High-Efficiency Hydrogen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 16289-16296. | 7.2 | 201 |
| 49 | An In Situ Formed Surface Coating Layer Enabling LiCoO ₂ with Stable 4.6 V High-Voltage Cycle Performances. <i>Advanced Energy Materials</i> , 2020, 10, 2001413. | 10.2 | 201 |
| 50 | A Supported Pd ₂ Dual-Atom Site Catalyst for Efficient Electrochemical CO ₂ Reduction. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 13388-13393. | 7.2 | 201 |
| 51 | A General Strategy for Fabricating Isolated Single Metal Atomic Site Catalysts in Y Zeolite. <i>Journal of the American Chemical Society</i> , 2019, 141, 9305-9311. | 6.6 | 191 |
| 52 | Cascade Reaction System Integrating Single-Atom Nanozymes with Abundant Cu Sites for Enhanced Biosensing. <i>Analytical Chemistry</i> , 2020, 92, 3373-3379. | 3.2 | 185 |
| 53 | Oxide-Modified Nickel Photocatalysts for the Production of Hydrocarbons in Visible Light. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 4215-4219. | 7.2 | 176 |
| 54 | A novel superhydrophobic hybrid nanocomposite material prepared by surface-initiated AGET ATRP and its anti-icing properties. <i>Journal of Materials Chemistry A</i> , 2014, 2, 9390-9399. | 5.2 | 173 |

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|----|--|------|-----------|
| 55 | Effect of phosphorus on lipid accumulation in freshwater microalga <i>Chlorella</i> sp.. <i>Journal of Applied Phycology</i> , 2013, 25, 311-318. | 1.5 | 171 |
| 56 | Few-Layer Bismuthene with Anisotropic Expansion for High-Areal-Capacity Sodium-Ion Batteries. <i>Advanced Materials</i> , 2019, 31, e1807874. | 11.1 | 165 |
| 57 | Superhydrophobic and anti-icing properties at overcooled temperature of a fluorinated hybrid surface prepared via a sol-gel process. <i>Soft Matter</i> , 2015, 11, 4540-4550. | 1.2 | 164 |
| 58 | Controllable conductive readout in self-assembled, topologically confined ferroelectric domain walls. <i>Nature Nanotechnology</i> , 2018, 13, 947-952. | 15.6 | 163 |
| 59 | Crystal Phase and Architecture Engineering of Lotus-Thalamus-Shaped Pt-Ni Anisotropic Superstructures for Highly Efficient Electrochemical Hydrogen Evolution. <i>Advanced Materials</i> , 2018, 30, e1801741. | 11.1 | 163 |
| 60 | Exclusive Strain Effect Boosts Overall Water Splitting in PdCu/Ir Core/Shell Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 8243-8250. | 7.2 | 163 |
| 61 | CoSe ₂ nanoparticles embedded MOF-derived Co-N-C nanoflake arrays as efficient and stable electrocatalyst for hydrogen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2019, 258, 117996. | 10.8 | 162 |
| 62 | High-entropy enhanced capacitive energy storage. <i>Nature Materials</i> , 2022, 21, 1074-1080. | 13.3 | 161 |
| 63 | Wafer-Scale Highly Oriented Monolayer MoS ₂ with Large Domain Sizes. <i>Nano Letters</i> , 2020, 20, 7193-7199. | 4.5 | 160 |
| 64 | Coupled Vacancy Pairs in Ni-Doped CoSe for Improved Electrocatalytic Hydrogen Production Through Topochemical Deintercalation. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 22743-22748. | 7.2 | 157 |
| 65 | Metal-Organic Framework Membranes Encapsulating Gold Nanoparticles for Direct Plasmonic Photocatalytic Nitrogen Fixation. <i>Journal of the American Chemical Society</i> , 2021, 143, 5727-5736. | 6.6 | 157 |
| 66 | LiMnO ₂ cathode stabilized by interfacial orbital ordering for sustainable lithium-ion batteries. <i>Nature Sustainability</i> , 2021, 4, 392-401. | 11.5 | 156 |
| 67 | Dual-atom Pt heterogeneous catalyst with excellent catalytic performances for the selective hydrogenation and epoxidation. <i>Nature Communications</i> , 2021, 12, 3181. | 5.8 | 156 |
| 68 | Yin-Yang Harmony: Metal and Nonmetal Dual-Doping Boosts Electrocatalytic Activity for Alkaline Hydrogen Evolution. <i>ACS Energy Letters</i> , 2018, 3, 2750-2756. | 8.8 | 154 |
| 69 | Surface coordination layer passivates oxidation of copper. <i>Nature</i> , 2020, 586, 390-394. | 13.7 | 154 |
| 70 | Metal-organic framework membranes with single-atomic centers for photocatalytic CO ₂ and O ₂ reduction. <i>Nature Communications</i> , 2021, 12, 2682. | 5.8 | 154 |
| 71 | PtSe ₂ /Pt Heterointerface with Reduced Coordination for Boosted Hydrogen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 23388-23393. | 7.2 | 153 |
| 72 | Hydrogen Stabilized RhPdH 2D Bimetallic Nanosheets for Efficient Alkaline Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , 2020, 142, 3645-3651. | 6.6 | 152 |

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|----|---|------|-----------|
| 73 | Magnetic particle-based super-hydrophobic coatings with excellent anti-icing and thermoresponsive deicing performance. <i>Journal of Materials Chemistry A</i> , 2015, 3, 21637-21646. | 5.2 | 150 |
| 74 | Silicone Oil-Infused Slippery Surfaces Based on Solâ€“Gel Process-Induced Nanocomposite Coatings: A Facile Approach to Highly Stable Bioinspired Surface for Biofouling Resistance. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 34810-34819. | 4.0 | 147 |
| 75 | Abundant nanoscale defects to eliminate voltage decay in Li-rich cathode materials. <i>Energy Storage Materials</i> , 2019, 16, 220-227. | 9.5 | 144 |
| 76 | In Situ Atomic-Scale Observation of Electrochemical Delithiation Induced Structure Evolution of LiCoO_2 Cathode in a Working All-Solid-State Battery. <i>Journal of the American Chemical Society</i> , 2017, 139, 4274-4277. | 6.6 | 142 |
| 77 | A monoclinic polymorph of sodium birnessite for ultrafast and ultrastable sodium ion storage. <i>Nature Communications</i> , 2018, 9, 5100. | 5.8 | 142 |
| 78 | Reversed Active Sites Boost the Intrinsic Activity of Grapheneâ€“like Cobalt Selenide for Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 12360-12365. | 7.2 | 142 |
| 79 | Metalâ€“Triazolateâ€“Frameworkâ€“Derived FeN_4Cl Single-Atom Catalysts with Hierarchical Porosity for the Oxygen Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 27324-27329. | 7.2 | 142 |
| 80 | One-step synthesis of single-site vanadium substitution in 1T-WS2 monolayers for enhanced hydrogen evolution catalysis. <i>Nature Communications</i> , 2021, 12, 709. | 5.8 | 137 |
| 81 | pH-Induced Switchable Superwettability of Efficient Antibacterial Fabrics for Durable Selective Oil/Water Separation. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 30161-30170. | 4.0 | 134 |
| 82 | d Orbital Hybridization Induced by a Monodispersed Ga Site on a Pt_3Mn Nanocatalyst Boosts Ethanol Electrooxidation. <i>Angewandte Chemie - International Edition</i> , 2022, 61, . | 7.2 | 134 |
| 83 | Synthesis of PdM (M = Zn, Cd, ZnCd) Nanosheets with an Unconventional Face-Centered Tetragonal Phase as Highly Efficient Electrocatalysts for Ethanol Oxidation. <i>ACS Nano</i> , 2019, 13, 14329-14336. | 7.3 | 133 |
| 84 | Lattice Distortion in Hollow Multiâ€“Shelled Structures for Efficient Visibleâ€“Light CO_2 Reduction with a $\text{SnS}_2/\text{SnO}_2$ Junction. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 721-724. | 7.2 | 128 |
| 85 | Single-atom Pt-I3 sites on all-inorganic Cs_2SnI_6 perovskite for efficient photocatalytic hydrogen production. <i>Nature Communications</i> , 2021, 12, 4412. | 5.8 | 128 |
| 86 | A Freestanding Flexible Single-Atom Cobalt-Based Multifunctional Interlayer toward Reversible and Durable Lithiumâ€“Sulfur Batteries. <i>Small Methods</i> , 2020, 4, 1900701. | 4.6 | 123 |
| 87 | Rutheniumâ€“platinum coreâ€“shell nanocatalysts with substantially enhanced activity and durability towards methanol oxidation. <i>Nano Energy</i> , 2016, 21, 247-257. | 8.2 | 121 |
| 88 | Lithium lanthanum titanate perovskite as an anode for lithium ion batteries. <i>Nature Communications</i> , 2020, 11, 3490. | 5.8 | 121 |
| 89 | Elevating the dâ€“Band Center of Sixâ€“Coordinated Octahedrons in Co_9S_8 through Feâ€“Incorporated Topochemical Deintercalation. <i>Advanced Energy Materials</i> , 2021, 11, 2003023. | 10.2 | 121 |
| 90 | Hydrogen-Intercalation-Induced Lattice Expansion of Pd@Pt Coreâ€“Shell Nanoparticles for Highly Efficient Electrocatalytic Alcohol Oxidation. <i>Journal of the American Chemical Society</i> , 2021, 143, 11262-11270. | 6.6 | 121 |

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|-----|--|------|-----------|
| 91 | Modulating the d-band center of boron doped single-atom sites to boost the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 20952-20957. | 5.2 | 117 |
| 92 | Synthesis of RuNi alloy nanostructures composed of multilayered nanosheets for highly efficient electrocatalytic hydrogen evolution. <i>Nano Energy</i> , 2019, 66, 104173. | 8.2 | 116 |
| 93 | Realizing Two-Electron Transfer in Ni(OH) ₂ Nanosheets for Energy Storage. <i>Journal of the American Chemical Society</i> , 2022, 144, 8969-8976. | 6.6 | 116 |
| 94 | Ambient Synthesis of Single-Atom Catalysts from Bulk Metal via Trapping of Atoms by Surface Dangling Bonds. <i>Advanced Materials</i> , 2019, 31, e1904496. | 11.1 | 114 |
| 95 | Stabilizing the Oxygen Lattice and Reversible Oxygen Redox Chemistry through Structural Dimensionality in Lithium-Rich Cathode Oxides. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4323-4327. | 7.2 | 114 |
| 96 | An Electrolytic Zn-MnO ₂ Battery for High-Voltage and Scalable Energy Storage. <i>Angewandte Chemie</i> , 2019, 131, 7905-7910. | 1.6 | 114 |
| 97 | Atomically dispersed Ni-Ru-P interface sites for high-efficiency pH-universal electrocatalysis of hydrogen evolution. <i>Nano Energy</i> , 2021, 80, 105467. | 8.2 | 114 |
| 98 | Compressive Strain Modulation of Single Iron Sites on Helical Carbon Support Boosts Electrocatalytic Oxygen Reduction. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 22722-22728. | 7.2 | 113 |
| 99 | Atomically dispersed Fe atoms anchored on COF-derived N-doped carbon nanospheres as efficient multi-functional catalysts. <i>Chemical Science</i> , 2020, 11, 786-790. | 3.7 | 110 |
| 100 | High Phase-Purity 1T-MoS ₂ Ultrathin Nanosheets by a Spatially Confined Template. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 17621-17624. | 7.2 | 109 |
| 101 | Intercalation-Activated Layered MoO ₃ Nanobelts as Biodegradable Nanozymes for Tumor-Specific Photo-Enhanced Catalytic Therapy. <i>Angewandte Chemie - International Edition</i> , 2022, 61, . | 7.2 | 109 |
| 102 | Icephobic Strategies and Materials with Superwettability: Design Principles and Mechanism. <i>Langmuir</i> , 2018, 34, 15425-15444. | 1.6 | 108 |
| 103 | A General Synthetic Method for High-Entropy Alloy Subnanometer Ribbons. <i>Journal of the American Chemical Society</i> , 2022, 144, 10582-10590. | 6.6 | 108 |
| 104 | Robust liquid-repellent coatings based on polymer nanoparticles with excellent self-cleaning and antibacterial performances. <i>Journal of Materials Chemistry A</i> , 2017, 5, 275-284. | 5.2 | 105 |
| 105 | Improved oxygen evolution activity of IrO ₂ by <i>in situ</i> engineering of an ultra-small Ir sphere shell utilizing a pulsed laser. <i>Nanoscale</i> , 2019, 11, 4407-4413. | 2.8 | 105 |
| 106 | Iridium-Triggered Phase Transition of MoS ₂ Nanosheets Boosts Overall Water Splitting in Alkaline Media. <i>ACS Energy Letters</i> , 2019, 4, 368-374. | 8.8 | 105 |
| 107 | Atomically Dispersed Co ₃ P on CdS Nanorods with Electron-Rich Feature Boosts Photocatalysis. <i>Advanced Materials</i> , 2020, 32, e1904249. | 11.1 | 105 |
| 108 | Intrinsic toughening and stable crack propagation in hexagonal boron nitride. <i>Nature</i> , 2021, 594, 57-61. | 13.7 | 105 |

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|-----|--|------|-----------|
| 109 | Atmospheric-Pressure Synthesis of 2D Nitrogen-Rich Tungsten Nitride. <i>Advanced Materials</i> , 2018, 30, e1805655. | 11.1 | 104 |
| 110 | Preparation of 1T ⁻² -Phase ReS ₂ Se ₂ (1-x) Nanodots for Highly Efficient Electrocatalytic Hydrogen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2018, 140, 8563-8568. | 6.6 | 104 |
| 111 | Realizing Negatively Charged Metal Atoms through Controllable d-Electron Transfer in Ternary Ir ¹⁺ Rh ^x Sb Intermetallic Alloy for Hydrogen Evolution Reaction. <i>Advanced Energy Materials</i> , 2022, 12, . | 10.2 | 104 |
| 112 | Palladium Single Atoms on TiO ₂ as a Photocatalytic Sensing Platform for Analyzing the Organophosphorus Pesticide Chlorpyrifos. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 232-236. | 7.2 | 103 |
| 113 | Lateral 2D WSe ₂ p-n Homojunction Formed by Efficient Charge-Carrier Type Modulation for High-Performance Optoelectronics. <i>Advanced Materials</i> , 2020, 32, e1906499. | 11.1 | 103 |
| 114 | Wood Carbon Based Single-Atom Catalyst for Rechargeable Zn-Air Batteries. <i>ACS Energy Letters</i> , 2021, 6, 3624-3633. | 8.8 | 103 |
| 115 | Activating Metal Oxides Nanocatalysts for Electrocatalytic Water Oxidation by Quenching-Induced Near-Surface Metal Atom Functionality. <i>Journal of the American Chemical Society</i> , 2021, 143, 14169-14177. | 6.6 | 101 |
| 116 | Highly active ruthenium sites stabilized by modulating electron-feeding for sustainable acidic oxygen-evolution electrocatalysis. <i>Energy and Environmental Science</i> , 2022, 15, 2356-2365. | 15.6 | 101 |
| 117 | Five-Fold Twinned Pd ₂ NiAg Nanocrystals with Increased Surface Ni Site Availability to Improve Oxygen Reduction Activity. <i>Journal of the American Chemical Society</i> , 2015, 137, 2820-2823. | 6.6 | 100 |
| 118 | Reductive Transformation of Layered Double Hydroxide Nanosheets to Fe-Based Heterostructures for Efficient Visible-Light Photocatalytic Hydrogenation of CO. <i>Advanced Materials</i> , 2018, 30, e1803127. | 11.1 | 100 |
| 119 | Anti-icing performance of super-wetting surfaces from icing-resistance to ice-phobic aspects: Robust hydrophobic or slippery surfaces. <i>Journal of Alloys and Compounds</i> , 2018, 765, 721-730. | 2.8 | 100 |
| 120 | A Superaerophobic Bimetallic Selenides Heterostructure for Efficient Industrial-Level Oxygen Evolution at Ultra-High Current Densities. <i>Nano-Micro Letters</i> , 2020, 12, 104. | 14.4 | 99 |
| 121 | Atomically Dispersed Zinc(I) Active Sites to Accelerate Nitrogen Reduction Kinetics for Ammonia Electrosynthesis. <i>Advanced Materials</i> , 2022, 34, e2103548. | 11.1 | 99 |
| 122 | Regulating the Local Spin State and Band Structure in Ni ₃ S ₂ Nanosheet for Improved Oxygen Evolution Activity. <i>Advanced Functional Materials</i> , 2022, 32, . | 7.8 | 99 |
| 123 | Single Chromium Atoms Supported on Titanium Dioxide Nanoparticles for Synergic Catalytic Methane Conversion under Mild Conditions. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 1216-1219. | 7.2 | 98 |
| 124 | Planar-Coordination PdSe ₂ Nanosheets as Highly Active Electrocatalyst for Hydrogen Evolution Reaction. <i>Advanced Functional Materials</i> , 2021, 31, 2102321. | 7.8 | 98 |
| 125 | Two-Dimensional Amorphous SnO _x from Liquid Metal: Mass Production, Phase Transfer, and Electrocatalytic CO ₂ Reduction toward Formic Acid. <i>Nano Letters</i> , 2020, 20, 2916-2922. | 4.5 | 97 |
| 126 | Electrochemiluminescence Tuned by Electron-Hole Recombination from Symmetry-Breaking in Wurtzite ZnSe. <i>Journal of the American Chemical Society</i> , 2016, 138, 1154-1157. | 6.6 | 96 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 127 | Metal-organic framework-derived Fe/Cu-substituted Co nanoparticles embedded in CNTs-grafted carbon polyhedron for Zn-air batteries. , 2020, 2, 283-293. | | 95 |
| 128 | One Nanometer PtIr Nanowires as High-Efficiency Bifunctional Catalysts for Electrosynthesis of Ethanol into High Value-Added Multicarbon Compound Coupled with Hydrogen Production. Journal of the American Chemical Society, 2021, 143, 10822-10827. | 6.6 | 95 |
| 129 | Substrate strain tunes operando geometric distortion and oxygen reduction activity of CuN ₂ C ₂ single-atom sites. Nature Communications, 2021, 12, 6335. | 5.8 | 95 |
| 130 | 3D LiCoO ₂ nanosheets assembled nanorod arrays via confined dissolution-recrystallization for advanced aqueous lithium-ion batteries. Nano Energy, 2019, 56, 463-472. | 8.2 | 94 |
| 131 | Activating Layered Metal Oxide Nanomaterials via Structural Engineering as Biodegradable Nanoagents for Photothermal Cancer Therapy. Small, 2021, 17, e2007486. | 5.2 | 94 |
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