Qinghua Zhang

List of Publications by Citations

538 papers	22,510 citations	72 h-index	129 g-index
593 ext. papers	32,076 ext. citations	12.1 avg, IF	7.48 L-index

#	Paper	IF	Citations
538	Ultrafine jagged platinum nanowires enable ultrahigh mass activity for the oxygen reduction reaction. *Science*, **2016**, 354, 1414-1419	33.3	986
537	Recent advances in ionic liquid catalysis. *Green Chemistry*, **2011**, 13, 2619	10	535
536	Enhanced strength and ductility in a high-entropy alloy via ordered oxygen complexes. *Nature*, **2018**, 563, 546-550	50.4	516
535	Direct observation of noble metal nanoparticles transforming to thermally stable single atoms. *Nature Nanotechnology*, **2018**, 13, 856-861	28.7	471
534	An Electrolytic Zn-MnO Battery for High-Voltage and Scalable Energy Storage. *Angewandte Chemie - International Edition*, **2019**, 58, 7823-7828	16.4	464
533	Giant Energy Density and Improved Discharge Efficiency of Solution-Processed Polymer Nanocomposites for Dielectric Energy Storage. *Advanced Materials*, **2016**, 28, 2055-61	24	432
532	Ultrahigh energy density of polymer nanocomposites containing BaTiO3@TiO2 nanofibers by atomic-scale interface engineering. *Advanced Materials*, **2015**, 27, 819-24	24	416
531	Electric-field control of tri-state phase transformation with a selective dual-ion switch. *Nature*, **2017** , 546, 124-128	50.4	388
530	Ultrahigh-energy density lead-free dielectric films via polymorphic nanodomain design. *Science*, **2019**, 365, 578-582	33.3	353
529	Single-Atom Vacancy Defect to Trigger High-Efficiency Hydrogen Evolution of MoS. *Journal of the American Chemical Society*, **2020**, 142, 4298-4308	16.4	287
528	Systematic design of superaerophobic nanotube-array electrode comprised of transition-metal sulfides for overall water splitting. *Nature Communications*, **2018**, 9, 2452	17.4	269
527	Experimental Realization of an Intrinsic Magnetic Topological Insulator*. *Chinese Physics Letters*, **2019**, 36, 076801	1.8	260
526	A General Route to Prepare Low-Ruthenium-Content Bimetallic Electrocatalysts for pH-Universal Hydrogen Evolution Reaction by Using Carbon Quantum Dots. *Angewandte Chemie - International Edition*, **2020**, 59, 1718-1726	16.4	250
525	Giant energy density and high efficiency achieved in bismuth ferrite-based film capacitors via domain engineering. *Nature Communications*, **2018**, 9, 1813	17.4	237
524	A universal ligand mediated method for large scale synthesis of transition metal single atom catalysts. *Nature Communications*, **2019**, 10, 4585	17.4	219
523	Ru Modulation Effects in the Synthesis of Unique Rod-like Ni@NiP-Ru Heterostructures and Their Remarkable Electrocatalytic Hydrogen Evolution Performance. *Journal of the American Chemical Society*, **2018**, 140, 2731-2734	16.4	211
522	A Nanozyme with Photo-Enhanced Dual Enzyme-Like Activities for Deep Pancreatic Cancer Therapy. *Angewandte Chemie - International Edition*, **2019**, 58, 12624-12631	16.4	209

521	Single-atom cobalt array bound to distorted 1T MoS with ensemble effect for hydrogen evolution catalysis. *Nature Communications*, **2019**, 10, 5231	17.4	204
520	Engineering the Atomic Interface with Single Platinum Atoms for Enhanced Photocatalytic Hydrogen Production. *Angewandte Chemie - International Edition*, **2020**, 59, 1295-1301	16.4	197
519	Extra storage capacity in transition metal oxide lithium-ion batteries revealed by in situ magnetometry. *Nature Materials*, **2021**, 20, 76-83	27	197
518	Silica-gel-confined ionic liquids: a new attempt for the development of supported nanoliquid catalysis. *Chemistry - A European Journal*, **2005**, 11, 5279-88	4.8	196
517	Constructing NiCo/FeO Heteroparticles within MOF-74 for Efficient Oxygen Evolution Reactions. *Journal of the American Chemical Society*, **2018**, 140, 15336-15341	16.4	193
516	Solid-Diffusion Synthesis of Single-Atom Catalysts Directly from Bulk Metal for Efficient CO2 Reduction. *Joule*, **2019**, 3, 584-594	27.8	186
515	Phase Modulation of (1T-2H)-MoSe2/TiC-C Shell/Core Arrays via Nitrogen Doping for Highly Efficient Hydrogen Evolution Reaction. *Advanced Materials*, **2018**, 30, e1802223	24	183
514	Thermal Emitting Strategy to Synthesize Atomically Dispersed Pt Metal Sites from Bulk Pt Metal. *Journal of the American Chemical Society*, **2019**, 141, 4505-4509	16.4	174
513	Electrochemically activated spinel manganese oxide for rechargeable aqueous aluminum battery. *Nature Communications*, **2019**, 10, 73	17.4	169
512	Rational Design of Fe$_2$N/C Hybrid for Enhanced Nitrogen Reduction Electrocatalysis under Ambient Conditions in Aqueous Solution. *ACS Catalysis*, **2019**, 9, 336-344	13.1	164
511	Directly transforming copper (I) oxide bulk into isolated single-atom copper sites catalyst through gas-transport approach. *Nature Communications*, **2019**, 10, 3734	17.4	159
510	A Self-Forming Composite Electrolyte for Solid-State Sodium Battery with Ultralong Cycle Life. *Advanced Energy Materials*, **2017**, 7, 1601196	21.8	158
509	Oxide-Modified Nickel Photocatalysts for the Production of Hydrocarbons in Visible Light. *Angewandte Chemie - International Edition*, **2016**, 55, 4215-9	16.4	157
508	Anionic Redox Reaction-Induced High-Capacity and Low-Strain Cathode with Suppressed Phase Transition. *Joule*, **2019**, 3, 503-517	27.8	154
507	2D Electron Gas and Oxygen Vacancy Induced High Oxygen Evolution Performances for Advanced Co O /CeO Nanohybrids. *Advanced Materials*, **2019**, 31, e1900062	24	147
506	A general synthesis approach for amorphous noble metal nanosheets. *Nature Communications*, **2019**, 10, 4855	17.4	145
505	Superhydrophobic and anti-icing properties at overcooled temperature of a fluorinated hybrid surface prepared via a sol-gel process. *Soft Matter*, **2015**, 11, 4540-50	3.6	144
504	A multifunctional gelatin-based aerogel with superior pollutants adsorption, oil/water separation and photocatalytic properties. *Chemical Engineering Journal*, **2019**, 358, 1539-1551	14.7	143

503	Effect of phosphorus on lipid accumulation in freshwater microalga Chlorella sp.. *Journal of Applied Phycology*, **2013**, 25, 311-318	3.2	142
502	A novel superhydrophobic hybrid nanocomposite material prepared by surface-initiated AGET ATRP and its anti-icing properties. *Journal of Materials Chemistry A*, **2014**, 2, 9390-9399	13	138
501	Matching the kinetics of natural enzymes with a single-atom iron nanozyme. *Nature Catalysis*, **2021**, 4, 407-417	36.5	134
500	Crystal Phase and Architecture Engineering of Lotus-Thalamus-Shaped Pt-Ni Anisotropic Superstructures for Highly Efficient Electrochemical Hydrogen Evolution. *Advanced Materials*, **2018**, 30, e1801741	24	128
499	Mastering Surface Reconstruction of Metastable Spinel Oxides for Better Water Oxidation. *Advanced Materials*, **2019**, 31, e1807898	24	126
498	A General Strategy for Fabricating Isolated Single Metal Atomic Site Catalysts in Y Zeolite. *Journal of the American Chemical Society*, **2019**, 141, 9305-9311	16.4	124
497	Atomic Engineering Catalyzed MnO Electrolysis Kinetics for a Hybrid Aqueous Battery with High Power and Energy Density. *Advanced Materials*, **2020**, 32, e2001894	24	123
496	Magnetic particle-based super-hydrophobic coatings with excellent anti-icing and thermoresponsive deicing performance. *Journal of Materials Chemistry A*, **2015**, 3, 21637-21646	13	114
495	Synergistic Doping and Intercalation: Realizing Deep Phase Modulation on MoS Arrays for High-Efficiency Hydrogen Evolution Reaction. *Angewandte Chemie - International Edition*, **2019**, 58, 16289-16296	16.4	113
494	In Situ Atomic-Scale Observation of Electrochemical Delithiation Induced Structure Evolution of LiCoO Cathode in a Working All-Solid-State Battery. *Journal of the American Chemical Society*, **2017**, 139, 4274-4277	16.4	109
493	Silicone Oil-Infused Slippery Surfaces Based on Sol-Gel Process-Induced Nanocomposite Coatings: A Facile Approach to Highly Stable Bioinspired Surface for Biofouling Resistance. *ACS Applied Materials & Interfaces*, **2016**, 8, 34810-34819	9.5	106
492	Controllable conductive readout in self-assembled, topologically confined ferroelectric domain walls. *Nature Nanotechnology*, **2018**, 13, 947-952	28.7	104
491	RhSe : A Superior 3D Electrocatalyst with Multiple Active Facets for Hydrogen Evolution Reaction in Both Acid and Alkaline Solutions. *Advanced Materials*, **2021**, 33, e2007894	24	104
490	Yin-Yang Harmony: Metal and Nonmetal Dual-Doping Boosts Electrocatalytic Activity for Alkaline Hydrogen Evolution. *ACS Energy Letters*, **2018**, 3, 2750-2756	20.1	103
489	Regulating Pore Structure of Hierarchical Porous Waste Cork-Derived Hard Carbon Anode for Enhanced Na Storage Performance. *Advanced Energy Materials*, **2019**, 9, 1902852	21.8	102
488	High-Efficiency Oxygen Reduction to Hydrogen Peroxide Catalyzed by Nickel Single-Atom Catalysts with Tetradentate N O Coordination in a Three-Phase Flow Cell. *Angewandte Chemie - International Edition*, **2020**, 59, 13057-13062	16.4	98
487	Silver Single-Atom Catalyst for Efficient Electrochemical CO Reduction Synthesized from Thermal Transformation and Surface Reconstruction. *Angewandte Chemie - International Edition*, **2021**, 60, 6170-6176	16.4	98
486	Few-Layer Bismuthene with Anisotropic Expansion for High-Areal-Capacity Sodium-Ion Batteries. *Advanced Materials*, **2019**, 31, e1807874	24	98

485	pH-Induced Switchable Superwettability of Efficient Antibacterial Fabrics for Durable Selective Oil/Water Separation. *ACS Applied Materials & Interfaces*, **2017**, 9, 30161-30170	9.5	97
484	CoSe2 nanoparticles embedded MOF-derived Co-N-C nanoflake arrays as efficient and stable electrocatalyst for hydrogen evolution reaction. *Applied Catalysis B: Environmental*, **2019**, 258, 117996	21.8	95
483	A monoclinic polymorph of sodium birnessite for ultrafast and ultrastable sodium ion storage. *Nature Communications*, **2018**, 9, 5100	17.4	93
482	Photocatalytic CO2 Reduction to CO over Ni Single Atoms Supported on Defect-Rich Zirconia. *Advanced Energy Materials*, **2020**, 10, 2002928	21.8	92
481	Coupled Vacancy Pairs in Ni-Doped CoSe for Improved Electrocatalytic Hydrogen Production Through Topochemical Deintercalation. *Angewandte Chemie - International Edition*, **2020**, 59, 22743-22748	16.4	92
480	Abundant nanoscale defects to eliminate voltage decay in Li-rich cathode materials. *Energy Storage Materials*, **2019**, 16, 220-227	19.4	91
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476	Densely Isolated FeN4 Sites for Peroxidase Mimicking. *ACS Catalysis*, **2020**, 10, 6422-6429	13.1	87
475	An In Situ Formed Surface Coating Layer Enabling LiCoO2 with Stable 4.6 V High-Voltage Cycle Performances. *Advanced Energy Materials*, **2020**, 10, 2001413	21.8	87
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473	Lattice Distortion in Hollow Multi-Shelled Structures for Efficient Visible-Light CO Reduction with a SnS /SnO Junction. *Angewandte Chemie - International Edition*, **2020**, 59, 721-724	16.4	84
472	Ambient Synthesis of Single-Atom Catalysts from Bulk Metal via Trapping of Atoms by Surface Dangling Bonds. *Advanced Materials*, **2019**, 31, e1904496	24	82
471	Stabilizing the Oxygen Lattice and Reversible Oxygen Redox Chemistry through Structural Dimensionality in Lithium-Rich Cathode Oxides. *Angewandte Chemie - International Edition*, **2019**, 58, 4323-4327	16.4	81
470	Improved oxygen evolution activity of IrO by in situ engineering of an ultra-small Ir sphere shell utilizing a pulsed laser. *Nanoscale*, **2019**, 11, 4407-4413	7.7	81
469	Cascade Reaction System Integrating Single-Atom Nanozymes with Abundant Cu Sites for Enhanced Biosensing. *Analytical Chemistry*, **2020**, 92, 3373-3379	7.8	81
468	Preparation of 1T□Phase ReSSe (x = 0-1) Nanodots for Highly Efficient Electrocatalytic Hydrogen Evolution Reaction. *Journal of the American Chemical Society*, **2018**, 140, 8563-8568	16.4	77

467	Elevating the d-Band Center of Six-Coordinated Octahedrons in Co9S8 through Fe-Incorporated Topochemical Deintercalation. *Advanced Energy Materials*, **2021**, 11, 2003023	21.8	74
466	Iridium-Triggered Phase Transition of MoS2 Nanosheets Boosts Overall Water Splitting in Alkaline Media. *ACS Energy Letters*, **2019**, 4, 368-374	20.1	71
465	Reductive Transformation of Layered-Double-Hydroxide Nanosheets to Fe-Based Heterostructures for Efficient Visible-Light Photocatalytic Hydrogenation of CO. *Advanced Materials*, **2018**, 30, e1803127	24	70
464	Icephobic Strategies and Materials with Superwettability: Design Principles and Mechanism. *Langmuir*, **2018**, 34, 15425-15444	4	70
463	Renewable, Biomass-Derived, Honeycomblike Aerogel As a Robust Oil Absorbent with Two-Way Reusability. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 10307-10316	8.3	69
462	Wafer-Scale Highly Oriented Monolayer MoS with Large Domain Sizes. *Nano Letters*, **2020**, 20, 7193-7199	11.5	69
461	Atmospheric-Pressure Synthesis of 2D Nitrogen-Rich Tungsten Nitride. *Advanced Materials*, **2018**, 30, e1805655	24	69
460	Lateral 2D WSe p-n Homojunction Formed by Efficient Charge-Carrier-Type Modulation for High-Performance Optoelectronics. *Advanced Materials*, **2020**, 32, e1906499	24	68
459	Electrochemiluminescence Tuned by Electron-Hole Recombination from Symmetry-Breaking in Wurtzite ZnSe. *Journal of the American Chemical Society*, **2016**, 138, 1154-7	16.4	67
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456	A Freestanding Flexible Single-Atom Cobalt-Based Multifunctional Interlayer toward Reversible and Durable Lithium-Sulfur Batteries. *Small Methods*, **2020**, 4, 1900701	12.8	66
455	3D LiCoO2 nanosheets assembled nanorod arrays via confined dissolution-recrystallization for advanced aqueous lithium-ion batteries. *Nano Energy*, **2019**, 56, 463-472	17.1	66
454	Molecular Beam Epitaxy-Grown SnSe in the Rock-Salt Structure: An Artificial Topological Crystalline Insulator Material. *Advanced Materials*, **2015**, 27, 4150-4	24	64
453	Detection of a superconducting phase in a two-atom layer of hexagonal Ga film grown on semiconducting GaN(0001). *Physical Review Letters*, **2015**, 114, 107003	7.4	64
452	Atomically dispersed Fe atoms anchored on COF-derived N-doped carbon nanospheres as efficient multi-functional catalysts. *Chemical Science*, **2019**, 11, 786-790	9.4	64
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450	Electric-field control of ferromagnetism through oxygen ion gating. *Nature Communications*, **2017**, 8, 2156	17.4	63

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447	Coordination Number Regulation of Molybdenum Single-Atom Nanozyme Peroxidase-like Specificity. *CheM*, **2021**, 7, 436-449	16.2	62
446	LiMnO2 cathode stabilized by interfacial orbital ordering for sustainable lithium-ion batteries. *Nature Sustainability*, **2021**, 4, 392-401	22.1	62
445	Two-Dimensional Amorphous SnO from Liquid Metal: Mass Production, Phase Transfer, and Electrocatalytic CO Reduction toward Formic Acid. *Nano Letters*, **2020**, 20, 2916-2922	11.5	61
444	Boosting fast energy storage by synergistic engineering of carbon and deficiency. *Nature Communications*, **2020**, 11, 132	17.4	61
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442	The Origin of Oxygen Vacancies Controlling La2/3Sr1/3MnO3 Electronic and Magnetic Properties. *Advanced Materials Interfaces*, **2016**, 3, 1500753	4.6	58
441	Durable and Scalable Candle Soot Icephobic Coating with Nucleation and Fracture Mechanism. *ACS Applied Materials & Interfaces*, **2019**, 11, 31532-31542	9.5	57
440	Microphase Structure, Crystallization Behavior, and Wettability Properties of Novel Fluorinated Copolymers Poly(perfluoroalkyl acrylate-co-stearyl acrylate) Containing Short Perfluorohexyl Chains. *Langmuir*, **2015**, 31, 4752-60	4	56
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438	Planar-Coordination PdSe2 Nanosheets as Highly Active Electrocatalyst for Hydrogen Evolution Reaction. *Advanced Functional Materials*, **2021**, 31, 2102321	15.6	56
437	Polyols-Infused Slippery Surfaces Based on Magnetic FeO-Functionalized Polymer Hybrids for Enhanced Multifunctional Anti-Icing and Deicing Properties. *Langmuir*, **2018**, 34, 4052-4058	4	55
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424	High Phase-Purity 1T-MoS Ultrathin Nanosheets by a Spatially Confined Template. *Angewandte Chemie - International Edition*, **2019**, 58, 17621-17624	16.4	52
423	Novel Fluorinated Polymers Containing Short Perfluorobutyl Side Chains and Their Super Wetting Performance on Diverse Substrates. *ACS Applied Materials & Interfaces*, **2016**, 8, 10513-23	9.5	52
422	Advanced Polymer Electrolyte with Enhanced Electrochemical Performance for Lithium-Ion Batteries: Effect of Nitrile-Functionalized Ionic Liquid. *ACS Applied Energy Materials*, **2019**, 2, 1685-1694	6.1	52
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419	Lithium lanthanum titanate perovskite as an anode for lithium ion batteries. *Nature Communications*, **2020**, 11, 3490	17.4	50
418	Native Vacancy Enhanced Oxygen Redox Reversibility and Structural Robustness. *Advanced Energy Materials*, **2019**, 9, 1803087	21.8	50
417	An Electrolytic Zn–MnO2 Battery for High-Voltage and Scalable Energy Storage. *Angewandte Chemie*, **2019**, 131, 7905-7910	3.6	49
416	Two-dimensional nanostructures of non-layered ternary thiospinels and their bifunctional electrocatalytic properties for oxygen reduction and evolution: the case of CuCo2S4 nanosheets. *Inorganic Chemistry Frontiers*, **2016**, 3, 1501-1509	6.8	49
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409	Atomic-resolution imaging of electrically induced oxygen vacancy migration and phase transformation in SrCoO. *Nature Communications*, **2017**, 8, 104	17.4	46
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407	Palladium Single Atoms on TiO as a Photocatalytic Sensing Platform for Analyzing the Organophosphorus Pesticide Chlorpyrifos. *Angewandte Chemie - International Edition*, **2020**, 59, 232-236	16.4	46
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399	Chemical Vapor Deposition Grown Wafer-Scale 2D Tantalum Diselenide with Robust Charge-Density-Wave Order. *Advanced Materials*, **2018**, 30, e1804616	24	45
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394	Water printing of ferroelectric polarization. *Nature Communications*, **2018**, 9, 3809	17.4	44
393	Arc-melting to narrow the bandgap of oxide semiconductors. *Advanced Materials*, **2015**, 27, 2589-94	24	42
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390	One-step synthesis of single-site vanadium substitution in 1T-WS monolayers for enhanced hydrogen evolution catalysis. *Nature Communications*, **2021**, 12, 709	17.4	42
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387	Dual-atom Pt heterogeneous catalyst with excellent catalytic performances for the selective hydrogenation and epoxidation. *Nature Communications*, **2021**, 12, 3181	17.4	40
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