

# Qinghua Zhang

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Stabilizing Layered Structure in Aqueous Electrolyte via Dynamic Water Intercalation/Deintercalation.. <i>Advanced Materials</i> , <b>2022</b> , e2108541	24	5
537	Surface Molecular Functionalization of Unusual Phase Metal Nanomaterials for Highly Efficient Electrochemical Carbon Dioxide Reduction under Industry-Relevant Current Density.. <i>Small</i> , <b>2022</b> , e2106766	11.7	7
536	Intercalation-Activated Layered MoO <sub>3</sub> Nanobelts as Biodegradable Nanozymes for Tumor-Specific Photo-Enhanced Catalytic Therapy.. <i>Angewandte Chemie - International Edition</i> , <b>2022</b> ,	16.4	15
535	Magnetic Phase Transitions and Magnetoelastic Coupling in a Two-Dimensional Stripy Antiferromagnet.. <i>Nano Letters</i> , <b>2022</b> ,	11.5	4
534	Room-Temperature Ferromagnetism at an Oxide-Nitride Interface.. <i>Physical Review Letters</i> , <b>2022</b> , 128, 017202	7.4	3
533	Crystalline-Amorphous Interfaces Coupling of CoSe /CoP with Optimized d-band Center and Boosted Electrocatalytic Hydrogen Evolution.. <i>Advanced Materials</i> , <b>2022</b> , e2110631	24	32
532	Coordination-Assisted Precise Construction of Metal Oxide Nanofilms for High-Performance Solid-State Batteries.. <i>Journal of the American Chemical Society</i> , <b>2022</b> ,	16.4	3
531	Squid inspired elastomer marine coating with efficient antifouling strategies: Hydrophilized defensive surface and lower modulus.. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2022</b> , 213, 112392	6	3
530	P-d orbital hybridization induced by monodispersed Ga site on Pt <sub>3</sub> Mn nanocatalyst boosts ethanol electrooxidation.. <i>Angewandte Chemie - International Edition</i> , <b>2022</b> ,	16.4	15
529	Pollen-like self-supported FeIr alloy for improved hydrogen evolution reaction in acid electrolyte. <i>Journal of Energy Chemistry</i> , <b>2022</b> , 66, 560-565	12	28
528	NIR-driven fast construction of patterned-wettability on slippery lubricant infused surface for droplet manipulation. <i>Chemical Engineering Journal</i> , <b>2022</b> , 428, 131141	14.7	4
527	Sea slug inspired smart marine antifouling coating with reversible chemical bonds: Controllable UV-responsive coumarin releasing and efficient UV-healing properties. <i>Chemical Engineering Journal</i> , <b>2022</b> , 429, 132471	14.7	7
526	Dual-gated single-molecule field-effect transistors beyond Moore's law.. <i>Nature Communications</i> , <b>2022</b> , 13, 1410	17.4	5
525	Caging-Pnictogen-Induced Superconductivity in Skutterudites IrX (X = As, P).. <i>Journal of the American Chemical Society</i> , <b>2022</b> ,	16.4	1
524	Electrochemically Exfoliated Chlorine-doped Graphene for Flexible All-Solid-State Micro-Supercapacitors with High Volumetric Energy Density.. <i>Advanced Materials</i> , <b>2022</b> , e2106309	24	2
523	Large-scale Hf Zr O Membranes with Robust Ferroelectricity.. <i>Advanced Materials</i> , <b>2022</b> , e2109889	24	2
522	Bimodal polymorphic nanodomains in ferroelectric films for giant energy storage. <i>Energy Storage Materials</i> , <b>2022</b> , 48, 306-313	19.4	2

521	Salt-assisted 2H-to-1T Phase Transformation of Transition Metal Dichalcogenides.. <i>Advanced Materials</i> , <b>2022</b> , e2201194	24	1
520	Janus-like B C/C Quantum Sheets with Z-Scheme Mechanism Strengthen Tumor Photothermal-Immunotherapy in NIR-II Biowindow.. <i>Small Methods</i> , <b>2022</b> , e2101551	12.8	0
519	Local coordination regulation through tuning atomic scale cavities of Pd metallene toward efficient oxygen reduction electrocatalysis.. <i>Advanced Materials</i> , <b>2022</b> , e2202084	24	12
518	Sustainable LiCoO by collective glide of CoO slabs upon charge/discharge.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119, e2120060119	11.5	3
517	Infinite-layer/perovskite oxide heterostructure-induced high-spin states in SrCuO/SrRuO bilayer films. <i>Materials Horizons</i> , <b>2021</b> , 8, 3468-3476	14.4	2
516	Substrate strain tunes operando geometric distortion and oxygen reduction activity of CuNC single-atom sites. <i>Nature Communications</i> , <b>2021</b> , 12, 6335	17.4	20
515	Cr-Doped Pd Metallene Endows a Practical Formaldehyde Sensor New Limit and High Selectivity. <i>Advanced Materials</i> , <b>2021</b> , e2105276	24	8
514	Atomically Dispersed Zinc(I) Active Sites to Accelerate Nitrogen Reduction Kinetics for Ammonia Electrosynthesis. <i>Advanced Materials</i> , <b>2021</b> , e2103548	24	19
513	Wet-chemistry hydrogen doped TiO <sub>2</sub> with switchable defects control for photocatalytic hydrogen evolution. <i>Matter</i> , <b>2021</b> ,	12.7	13
512	Atomic-scale observation of non-classical nucleation-mediated phase transformation in a titanium alloy. <i>Nature Materials</i> , <b>2021</b> ,	27	5
511	Designing flexible, smart and self-sustainable supercapacitors for portable/wearable electronics: from conductive polymers. <i>Chemical Society Reviews</i> , <b>2021</b> , 50, 12702-12743	58.5	32
510	High temperature superconductivity at FeSe/LaFeO interface. <i>Nature Communications</i> , <b>2021</b> , 12, 5926	17.4	4
509	Promoting CO <sub>2</sub> Electroreduction Kinetics on Atomically Dispersed Monovalent Zn(I) Sites by Rationally Engineering Proton-feeding Centers. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> ,	16.4	7
508	Metal-Triazolate-Framework-Derived FeN Cl Single-Atom Catalysts with Hierarchical Porosity for the Oxygen Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> ,	16.4	20
507	Green Synthesis of a Highly Efficient and Stable Single-Atom Iron Catalyst Anchored on Nitrogen-Doped Carbon Nanorods for the Oxygen Reduction Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 137-146	8.3	9
506	Selective Epitaxial Growth of Rh Nanorods on 2H/ Heterophase Au Nanosheets to Form 1D/2D Rh-Au Heterostructures for Highly Efficient Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 4387-4396	16.4	24
505	Realization of ALSb in the Double-Layer Honeycomb Structure: A Robust Class of Two-Dimensional Material. <i>ACS Nano</i> , <b>2021</b> , 15, 8184-8191	16.7	4
504	Li-Rich Li <sub>2</sub> [Ni <sub>0.8</sub> Co <sub>0.1</sub> Mn <sub>0.1</sub> ]O <sub>2</sub> for Anode-Free Lithium Metal Batteries. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 8370-8377	3.6	0

503	Evoking ordered vacancies in metallic nanostructures toward a vacated Barlow packing for high-performance hydrogen evolution. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	25
502	Near-room temperature ferromagnetic insulating state in highly distorted LaCoO with CoO square pyramids. <i>Nature Communications</i> , <b>2021</b> , 12, 1853	17.4	6
501	Covalent organic framework nanofluidic membrane as a platform for highly sensitive bionic thermosensation. <i>Nature Communications</i> , <b>2021</b> , 12, 1844	17.4	23
500	Exclusive Strain Effect Boosts Overall Water Splitting in PdCu/Ir Core/Shell Nanocrystals. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 8243-8250	16.4	55
499	Nanoburl Graphites. <i>Advanced Materials</i> , <b>2021</b> , 33, e2007513	24	5
498	Li-Rich Li [Ni Co Mn ]O for Anode-Free Lithium Metal Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 8289-8296	16.4	21
497	Dimensional Control of Octahedral Tilt in SrRuO via Infinite-Layered Oxides. <i>Nano Letters</i> , <b>2021</b> , 21, 3146-3154	6.3	54
496	Exclusive Strain Effect Boosts Overall Water Splitting in PdCu/Ir Core/Shell Nanocrystals. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 8324-8331	3.6	1
495	Reversed Active Sites Boost the Intrinsic Activity of Graphene-like Cobalt Selenide for Hydrogen Evolution. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 12468-12473	3.6	3
494	Stable Bimetallene Hydride Boosts Anodic CO Tolerance of Fuel Cells. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 1912-1919	10.19	16
493	Metal-Organic Framework Membranes Encapsulating Gold Nanoparticles for Direct Plasmonic Photocatalytic Nitrogen Fixation. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 5727-5736	16.4	42
492	Partially reduced Pd single atoms on CdS nanorods enable photocatalytic reforming of ethanol into high value-added multicarbon compound. <i>Chem</i> , <b>2021</b> , 7, 1033-1049	16.2	17
491	Reversed Active Sites Boost the Intrinsic Activity of Graphene-like Cobalt Selenide for Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 12360-12365	16.4	67
490	Metal-organic framework membranes with single-atomic centers for photocatalytic CO and O reduction. <i>Nature Communications</i> , <b>2021</b> , 12, 2682	17.4	40
489	Slippery Photothermal Trap for Outstanding Deicing Surfaces. <i>Journal of Bionic Engineering</i> , <b>2021</b> , 18, 548-558	2.7	13
488	Cation-synergy stabilizing anion redox of Chevrel phase Mo <sub>6</sub> S <sub>8</sub> in aluminum ion battery. <i>Energy Storage Materials</i> , <b>2021</b> , 37, 87-93	19.4	12
487	Dual-atom Pt heterogeneous catalyst with excellent catalytic performances for the selective hydrogenation and epoxidation. <i>Nature Communications</i> , <b>2021</b> , 12, 3181	17.4	40
486	Artificial cordyceps mycelium by submerged fermentation of <i>Hirsutella sinensis</i> HS 1201 using rice bran hydrolysate as substrate. <i>Environmental Quality Management</i> , <b>2021</b> , 31, 109-118	0.8	1

485	Efficient Dissolution of Tungsten Carbide Using an Oxygen-Containing Molten Salt. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 056513	3.9	5
484	Temperature-Responsive Self-Assembly of Single Polyoxometalates Clusters Driven by Hydrogen Bonds. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2103561	15.6	4
483	A Unique Gas-Migration, Trapping, and Emitting Strategy for High-Loading Single Atomic Cd Sites for Carbon Dioxide Electroreduction. <i>Nano Letters</i> , <b>2021</b> , 21, 4262-4269	11.5	13
482	High-Index Faceted PdPtCu Ultrathin Nanorings Enable Highly Active and Stable Oxygen Reduction Electrocatalysis. <i>Small Methods</i> , <b>2021</b> , 5, e2100154	12.8	12
481	A medium-range structure motif linking amorphous and crystalline states. <i>Nature Materials</i> , <b>2021</b> , 20, 1347-1352	27	13
480	Emergent Magnetic Phenomenon with Unconventional Structure in Epitaxial Manganate Thin Films. <i>Advanced Science</i> , <b>2021</b> , 8, 2100177	13.6	3
479	Addressing voltage decay in Li-rich cathodes by broadening the gap between metallic and anionic bands. <i>Nature Communications</i> , <b>2021</b> , 12, 3071	17.4	23
478	Unlocking the potential of P3 structure for practical Sodium-ion batteries by fabricating zero strain framework for Na <sup>+</sup> intercalation. <i>Energy Storage Materials</i> , <b>2021</b> , 37, 354-362	19.4	10
477	Imparting Ion Selectivity to Covalent Organic Framework Membranes Using Assembly for Blue Energy Harvesting. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 9415-9422	16.4	21
476	A Supported Pd Dual-Atom Site Catalyst for Efficient Electrochemical CO Reduction. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 13388-13393	16.4	54
475	Matching the kinetics of natural enzymes with a single-atom iron nanozyme. <i>Nature Catalysis</i> , <b>2021</b> , 4, 407-417	36.5	134
474	One-step epitaxy of high-mobility La-doped BaSnO <sub>3</sub> films by high-pressure magnetron sputtering. <i>APL Materials</i> , <b>2021</b> , 9, 061103	5.7	7
473	Planar-Coordination PdSe <sub>2</sub> Nanosheets as Highly Active Electrocatalyst for Hydrogen Evolution Reaction. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2102321	15.6	56
472	Synthesis and characterization of caprolactone based polyurethane with degradable and antifouling performance. <i>Chinese Journal of Chemical Engineering</i> , <b>2021</b> , 34, 299-306	3.2	1
471	Amorphous Redox-Rich Polysulfides for Mg Cathodes. <i>Jacs Au</i> , <b>2021</b> , 1, 1266-1274		4
470	Direct Observation of Metal Oxide Nanoparticles Being Transformed into Metal Single Atoms with Oxygen-Coordinated Structure and High-Loadings. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 15248-15253	16.4	9
469	Direct Observation of Metal Oxide Nanoparticles Being Transformed into Metal Single Atoms with Oxygen-Coordinated Structure and High-Loadings. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 15376-15381	3.6	0
468	Intrinsic toughening and stable crack propagation in hexagonal boron nitride. <i>Nature</i> , <b>2021</b> , 594, 57-61	50.4	25

467	Enhanced electric-field-induced strains in (K,Na)NbO <sub>3</sub> piezoelectrics from heterogeneous structures. <i>Materials Today</i> , <b>2021</b> , 46, 44-53	21.8	11
466	Single-Crystal Inorganic Helical Architectures Induced by Asymmetrical Defects in Sub-Nanometric Wires. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 9858-9865	16.4	4
465	Enhancement of Spin-Orbit Torque by Strain Engineering in SrRuO <sub>3</sub> Films. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2100380	15.6	5
464	Presence of s-Wave Pairing in Josephson Junctions Made of Twisted Ultrathin Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8+x</sub> Flakes. <i>Physical Review X</i> , <b>2021</b> , 11,	9.1	5
463	A Self-Healable Polyelectrolyte Binder for Highly Stabilized Sulfur, Silicon, and Silicon Oxides Electrodes. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2104433	15.6	8
462	Innenrücktitelbild: Boosting Photocatalytic Water Oxidation Over Bifunctional Rh <sup>0</sup> -Rh <sup>3+</sup> Sites (Angew. Chem. 42/2021). <i>Angewandte Chemie</i> , <b>2021</b> , 133, 23211	3.6	
461	Electron density distribution of LiMn <sub>2</sub> O <sub>4</sub> cathode investigated by synchrotron powder x-ray diffraction*. <i>Chinese Physics B</i> , <b>2021</b> , 30, 078202	1.2	1
460	One Nanometer PtIr Nanowires as High-Efficiency Bifunctional Catalysts for Electrosynthesis of Ethanol into High Value-Added Multicarbon Compound Coupled with Hydrogen Production. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 10822-10827	16.4	23
459	Boosting Photocatalytic Water Oxidation Over Bifunctional Rh <sup>0</sup> -Rh <sup>3+</sup> Sites. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 22943	3.6	0
458	Lithium Argyrodite as Solid Electrolyte and Cathode Precursor for Solid-State Batteries with Long Cycle Life. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2101370	21.8	20
457	Interface coupling 2D/2D SnSe <sub>2</sub> /graphene heterostructure as long-cycle anode for all-climate lithium-ion battery. <i>Chemical Engineering Journal</i> , <b>2021</b> , 407, 126973	14.7	21
456	Spiny Pd/PtFe core/shell nanotubes with rich high-index facets for efficient electrocatalysis. <i>Science Bulletin</i> , <b>2021</b> , 66, 44-51	10.6	14
455	In Operando Visualization of Cation Disorder Unravels Voltage Decay in Ni-Rich Cathodes.. <i>Small Methods</i> , <b>2021</b> , 5, e2000730	12.8	7
454	Structures and Functional Properties of Amorphous Alloys. <i>Small Structures</i> , <b>2021</b> , 2, 2000057	8.7	7
453	Atomically dispersed NiRu interface sites for high-efficiency pH-universal electrocatalysis of hydrogen evolution. <i>Nano Energy</i> , <b>2021</b> , 80, 105467	17.1	44
452	Research progress on gel polymer electrolytes for lithium-sulfur batteries. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 56, 420-437	12	18
451	Enhancing CO Electrocatalysis on 2D Porphyrin-Based Metal-Organic Framework Nanosheets Coupled with Visible-Light.. <i>Small Methods</i> , <b>2021</b> , 5, e2000991	12.8	24
450	Strain-Mediated High Conductivity in Ultrathin Antiferromagnetic Metallic Nitrides. <i>Advanced Materials</i> , <b>2021</b> , 33, e2005920	24	8

449	Silver Single-Atom Catalyst for Efficient Electrochemical CO Reduction Synthesized from Thermal Transformation and Surface Reconstruction. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 6170-6176	16.4	98
448	Enhanced antifouling strategy with a strong synergistic effect of fluorescent antifouling and contact bacteriostasis using 7-amino-4-methylcoumarin. <i>Chemical Engineering Journal</i> , <b>2021</b> , 420, 127676	14.7	8
447	Coordination Number Regulation of Molybdenum Single-Atom Nanozyme Peroxidase-like Specificity. <i>CheM</i> , <b>2021</b> , 7, 436-449	16.2	62
446	Porous Fe <sub>2</sub> O <sub>3</sub> nanoparticle decorated with atomically dispersed platinum: Study on atomic site structural change and gas sensor activity evolution. <i>Nano Research</i> , <b>2021</b> , 14, 1435-1442	10	17
445	Sub-nanometric Manganous Oxide Clusters in Nitrogen Doped Mesoporous Carbon Nanosheets for High-Performance Lithium-Sulfur Batteries. <i>Nano Letters</i> , <b>2021</b> , 21, 700-708	11.5	26
444	LiMnO <sub>2</sub> cathode stabilized by interfacial orbital ordering for sustainable lithium-ion batteries. <i>Nature Sustainability</i> , <b>2021</b> , 4, 392-401	22.1	62
443	Tunnel Intergrowth Li MnO Nanosheet Arrays as 3D Cathode for High-Performance All-Solid-State Thin Film Lithium Microbatteries. <i>Advanced Materials</i> , <b>2021</b> , 33, e2003524	24	22
442	Elevating the d-Band Center of Six-Coordinated Octahedrons in Co <sub>9</sub> S <sub>8</sub> through Fe-Incorporated Topochemical Deintercalation. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2003023	21.8	74
441	Retarded layered-to-spinel phase transition in structure reinforced birnessite with high Li content. <i>Science Bulletin</i> , <b>2021</b> , 66, 219-224	10.6	2
440	Structurally Disordered Phosphorus-Doped Pt as a Highly Active Electrocatalyst for an Oxygen Reduction Reaction. <i>ACS Catalysis</i> , <b>2021</b> , 11, 355-363	13.1	25
439	Extrinsic Photoconduction Induced Short-Wavelength Infrared Photodetectors Based on Ge-Based Chalcogenides. <i>Small</i> , <b>2021</b> , 17, e2006765	11	9
438	Strong Ferromagnetism Achieved via Breathing Lattices in Atomically Thin Cobaltites. <i>Advanced Materials</i> , <b>2021</b> , 33, e2001324	24	9
437	Silver Single-Atom Catalyst for Efficient Electrochemical CO <sub>2</sub> Reduction Synthesized from Thermal Transformation and Surface Reconstruction. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 6235-6241	3.6	10
436	Biomass-derived fluorinated corn starch emulsion as binder for silicon and silicon oxide based anodes in lithium-ion batteries. <i>Electrochimica Acta</i> , <b>2021</b> , 365, 137359	6.7	8
435	Extra storage capacity in transition metal oxide lithium-ion batteries revealed by in situ magnetometry. <i>Nature Materials</i> , <b>2021</b> , 20, 76-83	27	197
434	RhSe : A Superior 3D Electrocatalyst with Multiple Active Facets for Hydrogen Evolution Reaction in Both Acid and Alkaline Solutions. <i>Advanced Materials</i> , <b>2021</b> , 33, e2007894	24	104
433	Surface-Bound Domain Penetration and Large Wall Current. <i>Advanced Electronic Materials</i> , <b>2021</b> , 7, 2000620	7.20	4
432	One-step synthesis of single-site vanadium substitution in 1T-WS monolayers for enhanced hydrogen evolution catalysis. <i>Nature Communications</i> , <b>2021</b> , 12, 709	17.4	42

431	Ferromagnetic Materials: Strong Ferromagnetism Achieved via Breathing Lattices in Atomically Thin Cobaltites (Adv. Mater. 4/2021). <i>Advanced Materials</i> , <b>2021</b> , 33, 2170026	24	
430	Single-atom nickel terminating sp and sp nitride in polymeric carbon nitride for visible-light photocatalytic overall water splitting. <i>Chemical Science</i> , <b>2021</b> , 12, 3633-3643	9.4	23
429	Pillar-beam structures prevent layered cathode materials from destructive phase transitions. <i>Nature Communications</i> , <b>2021</b> , 12, 13	17.4	24
428	Crystalline/amorphous hetero-phase Ru nanoclusters for efficient electrocatalytic oxygen reduction and hydrogen evolution. <i>Materials Chemistry Frontiers</i> , <b>2021</b> , 5, 6648-6658	7.8	2
427	Innentitelbild: Delicate Control on the Shell Structure of Hollow Spheres Enables Tunable Mass Transport in Water Splitting (Angew. Chem. 13/2021). <i>Angewandte Chemie</i> , <b>2021</b> , 133, 6906-6906	3.6	
426	Proximate Quantum Spin Liquid on Designer Lattice. <i>Nano Letters</i> , <b>2021</b> , 21, 2010-2017	11.5	2
425	Structural twinning-induced insulating phase in CrN (111) films. <i>Physical Review Materials</i> , <b>2021</b> , 5,	3.2	6
424	Delicate Control on the Shell Structure of Hollow Spheres Enables Tunable Mass Transport in Water Splitting. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 7002-7007	3.6	5
423	Recent progress and perspective of electrochemical CO <sub>2</sub> reduction towards C <sub>2</sub> -C <sub>5</sub> products over non-precious metal heterogeneous electrocatalysts. <i>Nano Research</i> , <b>2021</b> , 14, 3188-3207	10	25
422	Delicate Control on the Shell Structure of Hollow Spheres Enables Tunable Mass Transport in Water Splitting. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 6926-6931	16.4	24
421	Robust Surface Reconstruction Induced by Subsurface Ni/Li Antisites in Ni-Rich Cathodes. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2010291	15.6	12
420	Direct observation of atomic-level fractal structure in a metallic glass membrane. <i>Science Bulletin</i> , <b>2021</b> ,	10.6	2
419	Activating Layered Metal Oxide Nanomaterials via Structural Engineering as Biodegradable Nanoagents for Photothermal Cancer Therapy. <i>Small</i> , <b>2021</b> , 17, e2007486	11	49
418	Hexagonal Nickel as a Highly Durable and Active Catalyst for Hydrogen Evolution. <i>ACS Catalysis</i> , <b>2021</b> , 11, 8798-8806	13.1	2
417	Boosting Photocatalytic Water Oxidation Over Bifunctional Rh -Rh Sites. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 22761-22768	16.4	4
416	Single-atom Pt-I sites on all-inorganic CsSnI <sub>3</sub> perovskite for efficient photocatalytic hydrogen production. <i>Nature Communications</i> , <b>2021</b> , 12, 4412	17.4	24
415	Hydrogen-Intercalation-Induced Lattice Expansion of Pd@Pt Core-Shell Nanoparticles for Highly Efficient Electrocatalytic Alcohol Oxidation. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 11262-11270	16.4	18
414	Defect-Engineered Dzyaloshinskii-Moriya Interaction and Electric-Field-Switchable Topological Spin Texture in SrRuO <sub>3</sub> . <i>Advanced Materials</i> , <b>2021</b> , 33, e2102525	24	11



413	Growth of (111)-Orientated GdTe and TmTe Thin Films by van der Waals Molecular Beam Epitaxy. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 15465-15471	3.8	1
412	Stable Radicals with Protective Umbrellas Integrated on the Surface of 2D Layered Materials. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2104246	15.6	2
411	Grain-Boundary Engineering of Monolayer MoS for Energy-Efficient Lateral Synaptic Devices. <i>Advanced Materials</i> , <b>2021</b> , 33, e2102435	24	10
410	Hierarchical Cross-Linked Carbon Aerogels with Transition Metal-Nitrogen Sites for Highly Efficient Industrial-Level CO <sub>2</sub> Electroreduction. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2104377	15.6	20
409	Decarboxylation-Induced Defects in MOF-Derived Single Cobalt Atom@Carbon Electrocatalysts for Efficient Oxygen Reduction. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 21853-21858	3.6	4
408	Defect-Engineered Dzyaloshinskii-Moriya Interaction and Electric-Field-Switchable Topological Spin Texture in SrRuO <sub>3</sub> (Adv. Mater. 33/2021). <i>Advanced Materials</i> , <b>2021</b> , 33, 2170255	24	
407	Sub-Monolayer YO <sub>2</sub> /MoO <sub>3</sub> on Ultrathin Pt Nanowires Boosts Alcohol Oxidation Electrocatalysis. <i>Advanced Materials</i> , <b>2021</b> , 33, e2103762	24	31
406	Ultrathin PdAuBiTe Nanosheets as High-Performance Oxygen Reduction Catalysts for a Direct Methanol Fuel Cell Device. <i>Advanced Materials</i> , <b>2021</b> , 33, e2103383	24	13
405	Activating Metal Oxides Nanocatalysts for Electrocatalytic Water Oxidation by Quenching-Induced Near-Surface Metal Atom Functionality. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 14169-14177	16.4	25
404	Decarboxylation-Induced Defects in MOF-Derived Single Cobalt Atom@Carbon Electrocatalysts for Efficient Oxygen Reduction. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 21685-21690	16.4	14
403	Quasi-One-Dimensional Structure and Possible Helical Antiferromagnetism of RbMnBi. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 12941-12949	5.1	6
402	Grain-Boundary Engineering of Monolayer MoS <sub>2</sub> for Energy-Efficient Lateral Synaptic Devices (Adv. Mater. 32/2021). <i>Advanced Materials</i> , <b>2021</b> , 33, 2170251	24	
401	A Pyrite Iron Disulfide Cathode with a Copper Current Collector for High-Energy Reversible Magnesium-Ion Storage. <i>Advanced Materials</i> , <b>2021</b> , 33, e2103881	24	16
400	Highly Efficient Self-Repairing Slippery Liquid-Infused Surface with Promising Anti-Icing and Anti-Fouling Performance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 40032-40041	9.5	14
399	Amorphous anion-rich titanium polysulfides for aluminum-ion batteries. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	18
398	Li-ionic control of magnetism through spin capacitance and conversion. <i>Matter</i> , <b>2021</b> ,	12.7	9
397	PtSe/Pt Heterointerface with Reduced Coordination for Boosted Hydrogen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 23388-23393	16.4	45
396	Compressive Strain Modulation of Single Iron Sites on Helical Carbon Support Boosts Electrocatalytic Oxygen Reduction. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 22904	3.6	0

395	Controllable Doping in 2D Layered Materials. <i>Advanced Materials</i> , <b>2021</b> , 33, e2104942	24	20
394	PtSe <sub>2</sub> /Pt Heterointerface with Reduced Coordination for Boosted Hydrogen Evolution Reaction. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 23576	3.6	15
393	Atomically Dispersed Ruthenium on Nickel Hydroxide Ultrathin Nanoribbons for Highly Efficient Hydrogen Evolution Reaction in Alkaline Media. <i>Advanced Materials</i> , <b>2021</b> , 33, e2104764	24	10
392	Reaction inhomogeneity coupling with metal rearrangement triggers electrochemical degradation in lithium-rich layered cathode. <i>Nature Communications</i> , <b>2021</b> , 12, 5370	17.4	10
391	Compressive Strain Modulation of Single Iron Sites on Helical Carbon Support Boosts Electrocatalytic Oxygen Reduction. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 22722-22728	16.4	25
390	An ultra-stable anode material for high/low-temperature workable super-fast charging sodium-ion batteries. <i>Chemical Engineering Journal</i> , <b>2021</b> , 422, 130054	14.7	10
389	Ultrahigh energy storage in superparaelectric relaxor ferroelectrics. <i>Science</i> , <b>2021</b> , 374, 100-104	33.3	49
388	Brittle-to-ductile transition in TiPt intermetallic compounds. <i>Science Bulletin</i> , <b>2021</b> , 66, 2281-2287	10.6	
387	A robust neuromorphic vision sensor with optical control of ferroelectric switching. <i>Nano Energy</i> , <b>2021</b> , 89, 106439	17.1	16
386	Enhanced electric resistivity and dielectric energy storage by vacancy defect complex. <i>Energy Storage Materials</i> , <b>2021</b> , 42, 836-844	19.4	5
385	Integration of single Co atoms and Ru nanoclusters boosts the cathodic performance of nitrogen-doped 3D graphene in lithium-oxygen batteries. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 10747-10757	13	13
384	Ferromagnetic Enhancement in LaMnO <sub>3</sub> Films with Release and Flexure (Adv. Mater. Interfaces 24/2021). <i>Advanced Materials Interfaces</i> , <b>2021</b> , 8, 2170142	4.6	
383	Spatially Separated Superconductivity and Enhanced Charge-Density-Wave Ordering in an IrTe Nanoflake. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 12180-12186	6.4	0
382	Magnetic Weyl Semimetallic Phase in Thin Films of Eu <sub>2</sub> Ir <sub>2</sub> O <sub>7</sub> . <i>Physical Review Letters</i> , <b>2021</b> , 127, 277204	7.4	0
381	Enhanced Surface Icephobicity on an Elastic Substrate. <i>Langmuir</i> , <b>2021</b> ,	4	8
380	A Phosphorus-Doped Ag@Pd Catalyst for Enhanced C-C Bond Cleavage during Ethanol Electrooxidation. <i>Small</i> , <b>2020</b> , 16, e2004727	11	24
379	A Superaerophobic Bimetallic Selenides Heterostructure for Efficient Industrial-Level Oxygen Evolution at Ultra-High Current Densities. <i>Nano-Micro Letters</i> , <b>2020</b> , 12, 104	19.5	56
378	Atomic Engineering Catalyzed MnO Electrolysis Kinetics for a Hybrid Aqueous Battery with High Power and Energy Density. <i>Advanced Materials</i> , <b>2020</b> , 32, e2001894	24	123

377	Mott gap engineering in Sr <sub>2</sub> IrO <sub>4</sub> /SrTiO <sub>3</sub> superlattices. <i>Science China Materials</i> , <b>2020</b> , 63, 1855-1860	7.1	0
376	Low Lattice Mismatch InSe <sub>2</sub> Se Vertical Van der Waals Heterostructure for High-performance Transistors via Strong Fermi-Level Depinning. <i>Small Methods</i> , <b>2020</b> , 4, 2000238	12.8	11
375	Fast and stable Mg <sup>2+</sup> intercalation in a high voltage NaV <sub>2</sub> O <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> F/rGO cathode material for magnesium-ion batteries. <i>Science China Materials</i> , <b>2020</b> , 63, 1651-1662	7.1	15
374	Electric field controllable high-spin SrRuO <sub>3</sub> driven by a solid ionic junction. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	12
373	Robust Ferromagnetism in Highly Strained SrCoO <sub>3</sub> Thin Films. <i>Physical Review X</i> , <b>2020</b> , 10,	9.1	5
372	A Universal Principle to Accurately Synthesize Atomically Dispersed Metal-N Sites for CO Electroreduction. <i>Nano-Micro Letters</i> , <b>2020</b> , 12, 108	19.5	30
371	Densely Isolated FeN <sub>4</sub> Sites for Peroxidase Mimicking. <i>ACS Catalysis</i> , <b>2020</b> , 10, 6422-6429	13.1	87
370	Long-Range Magnetic Order in Oxide Quantum Wells Hosting Two-Dimensional Electron Gases. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 28775-28782	9.5	2
369	An In Situ Formed Surface Coating Layer Enabling LiCoO <sub>2</sub> with Stable 4.6 V High-Voltage Cycle Performances. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2001413	21.8	87
368	An All-Scale Hierarchical Architecture Induces Colossal Room-Temperature Electrocaloric Effect at Ultralow Electric Field in Polymer Nanocomposites. <i>Advanced Materials</i> , <b>2020</b> , 32, e1907927	24	16
367	Dual-Defects Adjusted Crystal-Field Splitting of LaCo Ni O Hollow Multishelled Structures for Efficient Oxygen Evolution. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 19691-19695	16.4	37
366	Dopamine polymer derived isolated single-atom site metals/N-doped porous carbon for benzene oxidation. <i>Chemical Communications</i> , <b>2020</b> , 56, 8916-8919	5.8	8
365	Nonvolatile ferroelectric field-effect transistors. <i>Nature Communications</i> , <b>2020</b> , 11, 2811	17.4	35
364	Snoek-type damping performance in strong and ductile high-entropy alloys. <i>Science Advances</i> , <b>2020</b> , 6, eaba7802	14.3	23
363	Switching Magnetic Anisotropy of SrRuO <sub>3</sub> by Capping-Layer-Induced Octahedral Distortion. <i>Physical Review Applied</i> , <b>2020</b> , 13,	4.3	9
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361	Evolution of Ni/Li antisites under the phase transition of a layered LiNi <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> O <sub>2</sub> cathode. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 6337-6348	13	22
360	An overview of controlled-biocide-release coating based on polymer resin for marine antifouling applications. <i>Journal of Polymer Research</i> , <b>2020</b> , 27, 1	2.7	19

359	Fabricating Pd isolated single atom sites on C <sub>3</sub> N <sub>4</sub> /rGO for heterogenization of homogeneous catalysis. <i>Nano Research</i> , <b>2020</b> , 13, 947-951	10	41
358	Metal-organic framework-derived Fe/Cu-substituted Co nanoparticles embedded in CNTs-grafted carbon polyhedron for Zn-air batteries <b>2020</b> , 2, 283-293		46
357	Spin reorientation at (110)-La <sub>2</sub> /3Sr <sub>1</sub> /3MnO <sub>3</sub> /LaCoO <sub>3</sub> interfaces by orbital/charge reconstruction. <i>APL Materials</i> , <b>2020</b> , 8, 021113	5.7	1
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355	Integration of Metal Single Atoms on Hierarchical Porous Nitrogen-Doped Carbon for Highly Efficient Hydrogenation of Large-Sized Molecules in the Pharmaceutical Industry. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 17651-17658	9.5	17
354	Biomaterial Precursor Formation Is Initiated by Transporting Calcium and Phosphorus Clusters from the Endoplasmic Reticulum to Mitochondria. <i>Advanced Science</i> , <b>2020</b> , 7, 1902536	13.6	10
353	High-Performance Optoelectronics: Lateral 2D WSe <sub>2</sub> p-n Homo Junction Formed by Efficient Charge-Carrier-Type Modulation for High-Performance Optoelectronics (Adv. Mater. 9/2020). <i>Advanced Materials</i> , <b>2020</b> , 32, 2070067	24	1
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351	Facile approach to design a stable, damage resistant, slippery, and omniphobic surface.. <i>RSC Advances</i> , <b>2020</b> , 10, 19157-19168	3.7	23
350	Emergent superconductivity in single-crystalline MgTi <sub>2</sub> O <sub>4</sub> films via structural engineering. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	4
349	Hybrid Aqueous Batteries: Atomic Engineering Catalyzed MnO <sub>2</sub> Electrolysis Kinetics for a Hybrid Aqueous Battery with High Power and Energy Density (Adv. Mater. 25/2020). <i>Advanced Materials</i> , <b>2020</b> , 32, 2070191	24	2
348	Separation and Tracing of Anthropogenic Magnetite Nanoparticles in the Urban Atmosphere. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 9274-9284	10.3	20
347	Growth of High-Quality Superconducting FeSeTe Films on Pb(MgNb)TiO and Electric-Field Modulation of Superconductivity. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 12238-12245	9.5	6
346	Electrochemistry Induced Giant and Reversible Deformation in Oxides. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1908826	15.6	2
345	Cerium oxide embedded bilayer separator enabling fast polysulfide conversion for high-performance lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , <b>2020</b> , 388, 124120	14.7	34
344	Cascade Reaction System Integrating Single-Atom Nanozymes with Abundant Cu Sites for Enhanced Biosensing. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 3373-3379	7.8	81
343	Interfacial Control of Ferromagnetism in Ultrathin SrRuO Films Sandwiched between Ferroelectric BaTiO Layers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 6707-6715	9.5	10
342	A Freestanding Flexible Single-Atom Cobalt-Based Multifunctional Interlayer toward Reversible and Durable Lithium-Sulfur Batteries. <i>Small Methods</i> , <b>2020</b> , 4, 1900701	12.8	66

341	Eliminating Transition Metal Migration and Anionic Redox to Understand Voltage Hysteresis of Lithium-Rich Layered Oxides. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1903634	21.8	22
340	Lateral 2D WSe p-n Homojunction Formed by Efficient Charge-Carrier-Type Modulation for High-Performance Optoelectronics. <i>Advanced Materials</i> , <b>2020</b> , 32, e1906499	24	68
339	Hydrogen Stabilized RhPdH 2D Bimetallene Nanosheets for Efficient Alkaline Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 3645-3651	16.4	63
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337	Highly Reversible Cuprous Mediated Cathode Chemistry for Magnesium Batteries. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 11574-11579	3.6	3
336	Highly Reversible Cuprous Mediated Cathode Chemistry for Magnesium Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 11477-11482	16.4	29
335	Deterministic reversal of single magnetic vortex circulation by an electric field. <i>Science Bulletin</i> , <b>2020</b> , 65, 1260-1267	10.6	10
334	Engineering Mo/Mo <sub>2</sub> C/MoC hetero-interfaces for enhanced electrocatalytic nitrogen reduction. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 8920-8926	13	25
333	High-Efficiency Oxygen Reduction to Hydrogen Peroxide Catalyzed by Nickel Single-Atom Catalysts with Tetradentate N <sub>2</sub> O <sub>2</sub> Coordination in a Three-Phase Flow Cell. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 13157-13162	2.6	8
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329	Interfacial-hybridization-modified Ir ferromagnetism and electronic structure in LaMnO <sub>3</sub> /SrIrO <sub>3</sub> superlattices. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	4
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327	The Synthesis of Sub-Nano-Thick Pd Nanobelt-Based Materials for Enhanced Hydrogen Evolution Reaction Activity. <i>CCS Chemistry</i> , <b>2020</b> , 2, 642-654	7.2	7
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325	Single Chromium Atoms Supported on Titanium Dioxide Nanoparticles for Synergic Catalytic Methane Conversion under Mild Conditions. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 1216-1219	16.4	46
324	Single Chromium Atoms Supported on Titanium Dioxide Nanoparticles for Synergic Catalytic Methane Conversion under Mild Conditions. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 1232-1235	3.6	15

3 <sup>23</sup>	A Noble Metal Dichalcogenide for High-Performance Field-Effect Transistors and Broadband Photodetectors. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1907945	15.6	45
3 <sup>22</sup>	Porous Pt nanoframes decorated with Bi(OH) <sub>3</sub> as highly efficient and stable electrocatalyst for ethanol oxidation reaction. <i>Nano Research</i> , <b>2020</b> , 13, 265-272	10	27
3 <sup>21</sup>	Boosting fast energy storage by synergistic engineering of carbon and deficiency. <i>Nature Communications</i> , <b>2020</b> , 11, 132	17.4	61
3 <sup>20</sup>	Sulfur-terminated tin oxides for durable, highly reversible storage of large-capacity lithium. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 626-631	13	4
3 <sup>19</sup>	UV-driven self-replenishing slippery surfaces with programmable droplet-guiding pathways. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 2481-2489	13	39
3 <sup>18</sup>	Atomically Dispersed Co-P on CdS Nanorods with Electron-Rich Feature Boosts Photocatalysis. <i>Advanced Materials</i> , <b>2020</b> , 32, e1904249	24	53
3 <sup>17</sup>	Iodine Vapor Transport-Triggered Preferential Growth of Chevrel MoS Nanosheets for Advanced Multivalent Batteries. <i>ACS Nano</i> , <b>2020</b> , 14, 1102-1110	16.7	30
3 <sup>16</sup>	Controlled Atomic Solubility in Mn-Rich Composite Material to Achieve Superior Electrochemical Performance for Li-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1902231	21.8	9
3 <sup>15</sup>	Boron-Rich Molybdenum Boride with Unusual Short-Range Vacancy Ordering, Anisotropic Hardness, and Superconductivity. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 459-467	9.6	18
3 <sup>14</sup>	Realization of Monophased LaCoO <sub>x</sub> Films with Ordered Oxygen Vacancies. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2020</b> , 217, 1900848	1.6	2
3 <sup>13</sup>	A General Route to Prepare Low-Ruthenium-Content Bimetallic Electrocatalysts for pH-Universal Hydrogen Evolution Reaction by Using Carbon Quantum Dots. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 1735-1743	3.6	26
3 <sup>12</sup>	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> , <b>2020</b> , 59, 1718-1726	16.4	250
3 <sup>11</sup>	Surface coordination layer passivates oxidation of copper. <i>Nature</i> , <b>2020</b> , 586, 390-394	50.4	54
3 <sup>10</sup>	Zirconium Aided Epitaxial Growth of In <sub>x</sub> Se <sub>y</sub> on InP(111) Substrates. <i>Chinese Physics Letters</i> , <b>2020</b> , 37, 087401	1.8	2
3 <sup>09</sup>	Atomic heterointerfaces in La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> /SrIrO <sub>3</sub> superlattices. <i>Materials Characterization</i> , <b>2020</b> , 169, 110597	3.9	1
3 <sup>08</sup>	Stabilization of ferroelastic charged domain walls in self-assembled BiFeO <sub>3</sub> nanoislands. <i>Journal of Applied Physics</i> , <b>2020</b> , 128, 124103	2.5	2
3 <sup>07</sup>	Single-Atom Vacancy Defect to Trigger High-Efficiency Hydrogen Evolution of MoS. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 4298-4308	16.4	287
3 <sup>06</sup>	Lithium lanthanum titanate perovskite as an anode for lithium ion batteries. <i>Nature Communications</i> , <b>2020</b> , 11, 3490	17.4	50

305	Stacking Faults Hinder Lithium Insertion in Li <sub>2</sub> RuO <sub>3</sub> . <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2002631	21.8	8
304	Insulating SiO under Centimeter-Scale, Single-Crystal Graphene Enables Electronic-Device Fabrication. <i>Nano Letters</i> , <b>2020</b> , 20, 8584-8591	11.5	12
303	Large Switchable Photoconduction within 2D Potential Well of a Layered Ferroelectric Heterostructure. <i>Advanced Materials</i> , <b>2020</b> , 32, e2003033	24	12
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300	Facet engineering accelerates spillover hydrogenation on highly diluted metal nanocatalysts. <i>Nature Nanotechnology</i> , <b>2020</b> , 15, 848-853	28.7	90
299	Joint Cationic and Anionic Redox Chemistry for Advanced Mg Batteries. <i>Nano Letters</i> , <b>2020</b> , 20, 6852-6858	5.5	11
298	Photocatalytic CO <sub>2</sub> Reduction to CO over Ni Single Atoms Supported on Defect-Rich Zirconia. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2002928	21.8	92
297	A facile strategy to produce monatomic tantalum metallic glass. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 131903	3.1	1
296	Negative-Pressure-Induced Large Polarization in Nanosized PbTiO <sub>3</sub> . <i>Advanced Materials</i> , <b>2020</b> , 32, e2002968	6.8	7
295	High performance and low thermal expansion in Er-Fe-V-Mo dual-phase alloys. <i>Acta Materialia</i> , <b>2020</b> , 198, 271-280	8.4	8
294	Biomass-Derived, Water-Induced Self-Recoverable Composite Aerogels with Robust Superwettability for Water Treatment. <i>Langmuir</i> , <b>2020</b> , 36, 10960-10969	4	12
293	Electrochemical conversion of CO <sub>2</sub> to syngas with a wide range of CO/H <sub>2</sub> ratio over Ni/Fe binary single-atom catalysts. <i>Nano Research</i> , <b>2020</b> , 13, 3206-3211	10	25
292	Wafer-Scale Highly Oriented Monolayer MoS <sub>2</sub> with Large Domain Sizes. <i>Nano Letters</i> , <b>2020</b> , 20, 7193-7199	11.5	69
291	Environmentally Friendly Binders for Lithium-Sulfur Batteries. <i>ChemElectroChem</i> , <b>2020</b> , 7, 4158-4176	4.3	7
290	Coupled Vacancy Pairs in Ni-Doped CoSe for Improved Electrocatalytic Hydrogen Production Through Topochemical Deintercalation. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 22743-22748	16.4	92
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282	Engineering the Atomic Interface with Single Platinum Atoms for Enhanced Photocatalytic Hydrogen Production. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 1311-1317	3.6	21
281	Engineering the Atomic Interface with Single Platinum Atoms for Enhanced Photocatalytic Hydrogen Production. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 1295-1301	16.4	197
280	In situ synthesis of sustainable highly efficient single iron atoms anchored on nitrogen doped carbon derived from renewable biomass. <i>Carbon</i> , <b>2020</b> , 157, 614-621	10.4	30
279	Hydrothermally synthesized MnSe as high cycle stability anode material for lithium-ion battery. <i>Ionics</i> , <b>2020</b> , 26, 43-49	2.7	6
278	Nanocarbon-Enhanced 2D Photoelectrodes: A New Paradigm in Photoelectrochemical Water Splitting. <i>Nano-Micro Letters</i> , <b>2020</b> , 13, 24	19.5	28
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273	Multiferroic MetalBbNb <sub>0.12</sub> Ti <sub>0.88</sub> O <sub>3</sub> Films on Nb-Doped STO. <i>ACS Applied Electronic Materials</i> , <b>2019</b> , 1, 2109-2115	4	9
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268	Multi-functional fluorinated ionic liquid infused slippery surfaces with dual-responsive wettability switching and self-repairing. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 2172-2183	13	53
267	A General Strategy for Fabricating Isolated Single Metal Atomic Site Catalysts in Y Zeolite. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 9305-9311	16.4	124
266	Anomalous Dome-like Superconductivity in RE(CuNi)AsO (RE = La, Pr, Nd). <i>iScience</i> , <b>2019</b> , 14, 171-179	6.1	3
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264	Magnetoresistance in Metallic Ferroelectrics. <i>ACS Applied Electronic Materials</i> , <b>2019</b> , 1, 1225-1232	4	2
263	A Nanozyme with Photo-Enhanced Dual Enzyme-Like Activities for Deep Pancreatic Cancer Therapy. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 12754-12761	3.6	38
262	A Nanozyme with Photo-Enhanced Dual Enzyme-Like Activities for Deep Pancreatic Cancer Therapy. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 12624-12631	16.4	209
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257	Integrated System of Solar Cells with Hierarchical NiCoO Battery-Supercapacitor Hybrid Devices for Self-Driving Light-Emitting Diodes. <i>Nano-Micro Letters</i> , <b>2019</b> , 11, 42	19.5	39
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244	2D Electron Gas and Oxygen Vacancy Induced High Oxygen Evolution Performances for Advanced Co O /CeO Nanohybrids. <i>Advanced Materials</i> , <b>2019</b> , 31, e1900062	24	147
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155	Direct observation of noble metal nanoparticles transforming to thermally stable single atoms. <i>Nature Nanotechnology</i> , <b>2018</b> , 13, 856-861	28.7	471
154	Giant energy density and high efficiency achieved in bismuth ferrite-based film capacitors via domain engineering. <i>Nature Communications</i> , <b>2018</b> , 9, 1813	17.4	237
153	Three-dimensional atomic-scale observation of structural evolution of cathode material in a working all-solid-state battery. <i>Nature Communications</i> , <b>2018</b> , 9, 3341	17.4	45
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149	Quantum Anomalous Hall Multilayers Grown by Molecular Beam Epitaxy. <i>Chinese Physics Letters</i> , <b>2018</b> , 35, 076802	1.8	26
148	Crystal Phase and Architecture Engineering of Lotus-Thalamus-Shaped Pt-Ni Anisotropic Superstructures for Highly Efficient Electrochemical Hydrogen Evolution. <i>Advanced Materials</i> , <b>2018</b> , 30, e1801741	24	128
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140	A monoclinic polymorph of sodium birnessite for ultrafast and ultrastable sodium ion storage. <i>Nature Communications</i> , <b>2018</b> , 9, 5100	17.4	93
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136	Atmospheric-Pressure Synthesis of 2D Nitrogen-Rich Tungsten Nitride. <i>Advanced Materials</i> , <b>2018</b> , 30, e1805655	24	69
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