

Qinghua Zhang

List of Publications by Year in descending order

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570
papers

42,839
citations

2309

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4741

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593
all docs

593
docs citations

593
times ranked

36992
citing authors

#	ARTICLE	IF	CITATIONS
1	Fine-tuning of Pd-Rh core-shell catalysts by interstitial hydrogen doping for enhanced methanol oxidation. Nano Research, 2022, 15, 1288-1294.	5.8	18
2	Engineering the synergistic effect of carbon dots-stabilized atomic and subnanometric ruthenium as highly efficient electrocatalysts for robust hydrogen evolution. SmartMat, 2022, 3, 249-259.	6.4	38
3	Pollen-like self-supported FeIr alloy for improved hydrogen evolution reaction in acid electrolyte. Journal of Energy Chemistry, 2022, 66, 560-565.	7.1	92
4	NIR-driven fast construction of patterned-wettability on slippery lubricant infused surface for droplet manipulation. Chemical Engineering Journal, 2022, 428, 131141.	6.6	19
5	Sea slug inspired smart marine antifouling coating with reversible chemical bonds: Controllable UV-responsive coumarin releasing and efficient UV-healing properties. Chemical Engineering Journal, 2022, 429, 132471.	6.6	36
6	Promoting CO ₂ Electroreduction Kinetics on Atomically Dispersed Monovalent Zn ^I Sites by Rationally Engineering Proton-Feeding Centers. Angewandte Chemie - International Edition, 2022, 61, .	7.2	63
7	Promoting CO ₂ Electroreduction Kinetics on Atomically Dispersed Monovalent Zn ^I Sites by Rationally Engineering Proton-Feeding Centers. Angewandte Chemie, 2022, 134, .	1.6	15
8	CuO/Ag ₂ S/CuS Nanohybrids-Integrated Photoelectric and Photothermal Effects for Ultrasensitive Detection of Inorganic Pyrophosphatase. Advanced Functional Materials, 2022, 32, 2106854.	7.8	19
9	Electronic-structure evolution of SrFeO _{3-x} during topotactic phase transformation. Journal of Physics Condensed Matter, 2022, 34, 064001.	0.7	4
10	Cr-Doped Pd Metallene Endows a Practical Formaldehyde Sensor New Limit and High Selectivity. Advanced Materials, 2022, 34, e2105276.	11.1	40
11	Atomically Dispersed Zinc(I) Active Sites to Accelerate Nitrogen Reduction Kinetics for Ammonia Electrosynthesis. Advanced Materials, 2022, 34, e2103548.	11.1	99
12	The discovery of a superhard P-type transparent semiconductor: Al _{2.69} B ₅₀ . Materials Horizons, 2022, 9, 748-755.	6.4	3
13	Exchange Coupling in Synthetic Anion-Engineered Chromia Heterostructures. Advanced Functional Materials, 2022, 32, 2109828.	7.8	3
14	Wet-chemistry hydrogen doped TiO ₂ with switchable defects control for photocatalytic hydrogen evolution. Matter, 2022, 5, 206-218.	5.0	66
15	Boosting photocatalytic hydrogen production by creating isotype heterojunctions and single-atom active sites in highly-crystallized carbon nitride. Science Bulletin, 2022, 67, 520-528.	4.3	29
16	Atomic-scale observation of non-classical nucleation-mediated phase transformation in a titanium alloy. Nature Materials, 2022, 21, 290-296.	13.3	38
17	d Orbital Hybridization Induced by a Monodispersed Ga Site on a Pt ₃ Mn Nanocatalyst Boosts Ethanol Electrooxidation. Angewandte Chemie - International Edition, 2022, 61, .	7.2	134
18	Ge Incorporation to Stabilize Efficient Inorganic CsPbI ₃ Perovskite Solar Cells. Advanced Energy Materials, 2022, 12, .	10.2	55

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19	Stabilizing Layered Structure in Aqueous Electrolyte via Dynamic Water Intercalation/Deintercalation. <i>Advanced Materials</i> , 2022, 34, e2108541.	11.1	22
20	Surface Molecular Functionalization of Unusual Phase Metal Nanomaterials for Highly Efficient Electrochemical Carbon Dioxide Reduction under Industry-Relevant Current Density. <i>Small</i> , 2022, 18, e2106766.	5.2	30
21	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
22	Intercalation-Activated Layered MoO ₃ Nanobelts as Biodegradable Nanozymes for Tumor-Specific Photo-Enhanced Catalytic Therapy. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	16
23	Magnetic Phase Transitions and Magnetoelastic Coupling in a Two-Dimensional Stripy Antiferromagnet. <i>Nano Letters</i> , 2022, 22, 1233-1241.	4.5	21
24	Room-Temperature Ferromagnetism at an Oxide-Nitride Interface. <i>Physical Review Letters</i> , 2022, 128, 017202.	2.9	11
25	d Orbital Hybridization Induced by a Monodispersed Ga Site on a Pt ₃ Mn Nanocatalyst Boosts Ethanol Electrooxidation. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	19
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	Coordination-Assisted Precise Construction of Metal Oxide Nanofilms for High-Performance Solid-State Batteries. <i>Journal of the American Chemical Society</i> , 2022, 144, 2179-2188.	6.6	38
28	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
29	Self-assembly of polyoxometalate clusters into two-dimensional clusterphene structures featuring hexagonal pores. <i>Nature Chemistry</i> , 2022, 14, 433-440.	6.6	72
30	Squid inspired elastomer marine coating with efficient antifouling strategies: Hydrophilized defensive surface and lower modulus. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022, 213, 112392.	2.5	22
31	Topologically protected oxygen redox in a layered manganese oxide cathode for sustainable batteries. <i>Nature Sustainability</i> , 2022, 5, 214-224.	11.5	44
32	Promoting Electrochemical CO ₂ Reduction via Boosting Activation of Adsorbed Intermediates on Iron Single-Atom Catalyst. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	52
33	Dual-gated single-molecule field-effect transistors beyond Moore's law. <i>Nature Communications</i> , 2022, 13, 1410.	5.8	38
34	Spin-Glass State above Room Temperature in a Layered Nickelate La _{n+1} Ni _n O _{3n+1} . <i>Advanced Electronic Materials</i> , 2022, 8, .	2.6	0
35	Self-Regulated Chemical Substitution in a Highly Strained Perovskite Oxide. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	3
36	Chemical order-disorder nanodomains in Fe ₃ Pt bulk alloy. <i>National Science Review</i> , 2022, 9, .	4.6	3

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55	Sustainable LiCoO ₂ by collective glide of CoO ₆ slabs upon charge/discharge. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2120060119.	3.3	19
56	Pressure-induced superconductivity in the noncentrosymmetric Weyl semimetals $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{LaAl} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \text{X} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$	1.1	7
57	Realizing Negatively Charged Metal Atoms through Controllable d-Electron Transfer in Ternary Ir ¹⁺ Rh ^x Sb Intermetallic Alloy for Hydrogen Evolution Reaction. Advanced Energy Materials, 2022, 12, .	10.2	104
58	Electro-Photo-Thermal Promoted Anti-Caking Materials: A New Strategy Combined with Passive Anti-Caking and Active De-Caking. Advanced Materials Interfaces, 2022, 9, .	1.9	38
59	Realizing Two-Electron Transfer in Ni(OH) ₂ Nanosheets for Energy Storage. Journal of the American Chemical Society, 2022, 144, 8969-8976.	6.6	116
60	High CO-Tolerant Ru-Based Catalysts by Constructing an Oxide Blocking Layer. Journal of the American Chemical Society, 2022, 144, 9292-9301.	6.6	29
61	Preparation of Dye Molecule-Intercalated MoO ₃ Organic/Inorganic Superlattice Nanoparticles for Fluorescence Imaging-Guided Catalytic Therapy. Small, 2022, 18, .	5.2	18
62	Metal-Organic Frameworks with Assembled Bifunctional Microreactor for Charge Modulation and Strain Generation toward Enhanced Oxygen Electrocatalysis. ACS Nano, 2022, 16, 9523-9534.	7.3	38
63	Highly Active Si Sites Enabled by Negative Valent Ru for Electrocatalytic Hydrogen Evolution in LaRuSi. Angewandte Chemie - International Edition, 2022, 61, .	7.2	86
64	Highly Active Si Sites Enabled by Negative Valent Ru for Electrocatalytic Hydrogen Evolution in LaRuSi. Angewandte Chemie, 2022, 134, .	1.6	28
65	A General Synthetic Method for High-Entropy Alloy Subnanometer Ribbons. Journal of the American Chemical Society, 2022, 144, 10582-10590.	6.6	108
66	Synthesis of KVPO ₄ /Carbon Porous Single Crystalline Nanoplates for High-Rate Potassium-Ion Batteries. Nano Letters, 2022, 22, 4933-4940.	4.5	37
67	High-entropy enhanced capacitive energy storage. Nature Materials, 2022, 21, 1074-1080.	13.3	161
68	Epitaxial stabilization of an orthorhombic Mg-Ti-O superconductor. Physical Review B, 2022, 105, .	1.1	2
69	Spreading monoclinic boundary network between hexagonal primary grains for high performance Ni-rich cathode materials. Nano Energy, 2022, 100, 107502.	8.2	7
70	Unraveling the Evolution of Transition Metals during Li Alloying-Dealloying by In-Operando Magnetometry. Chemistry of Materials, 2022, 34, 5852-5859.	3.2	19
71	Industrial-Level CO ₂ Electroreduction Using Solid-Electrolyte Devices Enabled by High-Loading Nickel Atomic Site Catalysts. Advanced Energy Materials, 2022, 12, .	10.2	32
72	Atomically Dispersed MoO _x on Rhodium Metallene Boosts Electrocatalyzed Alkaline Hydrogen Evolution. Angewandte Chemie - International Edition, 2022, 61, .	7.2	57

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73	Interface coupling 2D/2D SnSe ₂ /graphene heterostructure as long-cycle anode for all-climate lithium-ion battery. <i>Chemical Engineering Journal</i> , 2021, 407, 126973.	6.6	52
74	Spiny Pd/PtFe core/shell nanotubes with rich high-index facets for efficient electrocatalysis. <i>Science Bulletin</i> , 2021, 66, 44-51.	4.3	54
75	In Operando Visualization of Cation Disorder Unravels Voltage Decay in Ni-Rich Cathodes. <i>Small Methods</i> , 2021, 5, e2000730.	4.6	18
76	Structures and Functional Properties of Amorphous Alloys. <i>Small Structures</i> , 2021, 2, 2000057.	6.9	28
77	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
78	Research progress on gel polymer electrolytes for lithium-sulfur batteries. <i>Journal of Energy Chemistry</i> , 2021, 56, 420-437.	7.1	59
79	Enhancing CO ₂ Electrocatalysis on 2D Porphyrin-Based Metal-Organic Framework Nanosheets Coupled with Visible-Light. <i>Small Methods</i> , 2021, 5, e2000991.	4.6	50
80	Strain-Mediated High Conductivity in Ultrathin Antiferromagnetic Metallic Nitrides. <i>Advanced Materials</i> , 2021, 33, 2005920.	11.1	25
81	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
82	Enhanced antifouling strategy with a strong synergistic effect of fluorescent antifouling and contact bacteriostasis using 7-amino-4-methylcoumarin. <i>Chemical Engineering Journal</i> , 2021, 420, 127676.	6.6	46
83	Coordination Number Regulation of Molybdenum Single-Atom Nanozyme Peroxidase-like Specificity. <i>CheM</i> , 2021, 7, 436-449.	5.8	216
84	Porous β -Fe ₂ O ₃ nanoparticle decorated with atomically dispersed platinum: Study on atomic site structural change and gas sensor activity evolution. <i>Nano Research</i> , 2021, 14, 1435-1442.	5.8	46
85	Sub-nanometric Manganous Oxide Clusters in Nitrogen Doped Mesoporous Carbon Nanosheets for High-Performance Lithium-Sulfur Batteries. <i>Nano Letters</i> , 2021, 21, 700-708.	4.5	60
86	LiMnO ₂ cathode stabilized by interfacial orbital ordering for sustainable lithium-ion batteries. <i>Nature Sustainability</i> , 2021, 4, 392-401.	11.5	156
87	Tunnel Intergrowth Li _x MnO ₂ Nanosheet Arrays as 3D Cathode for High-Performance All-Solid-State Thin Film Lithium Microbatteries. <i>Advanced Materials</i> , 2021, 33, e2003524.	11.1	53
88	Elevating the d-Band Center of Six-Coordinated Octahedrons in Co ₉ S ₈ through Fe-Incorporated Topochemical Deintercalation. <i>Advanced Energy Materials</i> , 2021, 11, 2003023.	10.2	121
89	Retarded layered-to-spinel phase transition in structure reinforced birnessite with high Li content. <i>Science Bulletin</i> , 2021, 66, 219-224.	4.3	9
90	Structurally Disordered Phosphorus-Doped Pt as a Highly Active Electrocatalyst for an Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2021, 11, 355-363.	5.5	79

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91	Extrinsic Photoconduction Induced Short-Wavelength Infrared Photodetectors Based on Ge-Based Chalcogenides. <i>Small</i> , 2021, 17, e2006765.	5.2	25
92	Strong Ferromagnetism Achieved via Breathing Lattices in Atomically Thin Cobaltites. <i>Advanced Materials</i> , 2021, 33, e2001324.	11.1	21
93	Silver Single-Atom Catalyst for Efficient Electrochemical CO ₂ Reduction Synthesized from Thermal Transformation and Surface Reconstruction. <i>Angewandte Chemie</i> , 2021, 133, 6235-6241.	1.6	22
94	Nanocarbon-Enhanced 2D Photoelectrodes: A New Paradigm in Photoelectrochemical Water Splitting. <i>Nano-Micro Letters</i> , 2021, 13, 24.	14.4	62
95	Biomass-derived fluorinated corn starch emulsion as binder for silicon and silicon oxide based anodes in lithium-ion batteries. <i>Electrochimica Acta</i> , 2021, 365, 137359.	2.6	19
96	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
97	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
98	Surface-Bound Domain Penetration and Large Wall Current. <i>Advanced Electronic Materials</i> , 2021, 7, 2000720.	2.6	8
99	One-step synthesis of single-site vanadium substitution in 1T-WS ₂ monolayers for enhanced hydrogen evolution catalysis. <i>Nature Communications</i> , 2021, 12, 709.	5.8	137
100	Ferromagnetic Materials: Strong Ferromagnetism Achieved via Breathing Lattices in Atomically Thin Cobaltites (<i>Adv. Mater.</i> 4/2021). <i>Advanced Materials</i> , 2021, 33, 2170026.	11.1	0
101	Single-atom nickel terminating sp ² and sp ³ nitride in polymeric carbon nitride for visible-light photocatalytic overall water splitting. <i>Chemical Science</i> , 2021, 12, 3633-3643.	3.7	68
102	Pillar-beam structures prevent layered cathode materials from destructive phase transitions. <i>Nature Communications</i> , 2021, 12, 13.	5.8	85
103	Crystalline/amorphous hetero-phase Ru nanoclusters for efficient electrocatalytic oxygen reduction and hydrogen evolution. <i>Materials Chemistry Frontiers</i> , 2021, 5, 6648-6658.	3.2	12
104	Innenteilbild: Delicate Control on the Shell Structure of Hollow Spheres Enables Tunable Mass Transport in Water Splitting (<i>Angew. Chem.</i> 13/2021). <i>Angewandte Chemie</i> , 2021, 133, 6906-6906.	1.6	0
105	Proximate Quantum Spin Liquid on Designer Lattice. <i>Nano Letters</i> , 2021, 21, 2010-2017.	4.5	4
106	Structural twinning-induced insulating phase in CrN (111) films. <i>Physical Review Materials</i> , 2021, 5, .	0.9	12
107	Delicate Control on the Shell Structure of Hollow Spheres Enables Tunable Mass Transport in Water Splitting. <i>Angewandte Chemie</i> , 2021, 133, 7002-7007.	1.6	8
108	Recent progress and perspective of electrochemical CO ₂ reduction towards C ₂ -C ₅ products over non-precious metal heterogeneous electrocatalysts. <i>Nano Research</i> , 2021, 14, 3188-3207.	5.8	57

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109	Delicate Control on the Shell Structure of Hollow Spheres Enables Tunable Mass Transport in Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 6926-6931.	7.2	65
110	Robust Surface Reconstruction Induced by Subsurface Ni/Li Antisites in Ni-Rich Cathodes. <i>Advanced Functional Materials</i> , 2021, 31, 2010291.	7.8	36
111	Direct observation of atomic-level fractal structure in a metallic glass membrane. <i>Science Bulletin</i> , 2021, 66, 1312-1318.	4.3	11
112	Activating Layered Metal Oxide Nanomaterials via Structural Engineering as Biodegradable Nanoagents for Photothermal Cancer Therapy. <i>Small</i> , 2021, 17, e2007486.	5.2	94
113	Selective Epitaxial Growth of Rh Nanorods on 2H-fcc Heterophase Au Nanosheets to Form 1D/2D Rh-Au Heterostructures for Highly Efficient Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , 2021, 143, 4387-4396.	6.6	56
114	Realization of AlSb in the Double-Layer Honeycomb Structure: A Robust Class of Two-Dimensional Material. <i>ACS Nano</i> , 2021, 15, 8184-8191.	7.3	20
115	Ni-Rich Li ₂ [Ni _{0.8} Co _{0.1} Mn _{0.1}]O ₂ for Anode-Free Lithium Metal Batteries. <i>Angewandte Chemie</i> , 2021, 133, 8370-8377.	1.6	2
116	Evoking ordered vacancies in metallic nanostructures toward a vacated Barlow packing for high-performance hydrogen evolution. <i>Science Advances</i> , 2021, 7, .	4.7	64
117	Near-room temperature ferromagnetic insulating state in highly distorted LaCoO _{2.5} with CoO ₅ square pyramids. <i>Nature Communications</i> , 2021, 12, 1853.	5.8	25
118	Covalent organic framework nanofluidic membrane as a platform for highly sensitive bionic thermosensation. <i>Nature Communications</i> , 2021, 12, 1844.	5.8	71
119	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
120	Nanoburl Graphites. <i>Advanced Materials</i> , 2021, 33, e2007513.	11.1	19
121	Ni-Rich Li ₂ [Ni _{0.8} Co _{0.1} Mn _{0.1}]O ₂ for Anode-Free Lithium Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 8289-8296.	7.2	71
122	Dimensional Control of Octahedral Tilt in SrRuO ₃ via Infinite-Layered Oxides. <i>Nano Letters</i> , 2021, 21, 3146-3154.	4.5	14
123	Exclusive Strain Effect Boosts Overall Water Splitting in PdCu/Ir Core/Shell Nanocrystals. <i>Angewandte Chemie</i> , 2021, 133, 8324-8331.	1.6	18
124	Reversed Active Sites Boost the Intrinsic Activity of Graphene-like Cobalt Selenide for Hydrogen Evolution. <i>Angewandte Chemie</i> , 2021, 133, 12468-12473.	1.6	17
125	Stable Bimetallene Hydride Boosts Anodic CO Tolerance of Fuel Cells. <i>ACS Energy Letters</i> , 2021, 6, 1912-1919.	8.8	48
126	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

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127	Partially reduced Pd single atoms on CdS nanorods enable photocatalytic reforming of ethanol into high value-added multicarbon compound. <i>CheM</i> , 2021, 7, 1033-1049.	5.8	55
128	Reversed Active Sites Boost the Intrinsic Activity of Graphene-like Cobalt Selenide for Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 12360-12365.	7.2	142
129	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
130	Slippery Photothermal Trap for Outstanding Deicing Surfaces. <i>Journal of Bionic Engineering</i> , 2021, 18, 548-558.	2.7	31
131	Cation-synergy stabilizing anion redox of Chevrel phase Mo ₆ S ₈ in aluminum ion battery. <i>Energy Storage Materials</i> , 2021, 37, 87-93.	9.5	31
132	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
133	Artificial cordyceps mycelium by submerged fermentation of <i>Hirsutella sinensis</i> HS 1201 using rice bran hydrolysate as substrate. <i>Environmental Quality Management</i> , 2021, 31, 109-118.	1.0	3
134	Efficient Dissolution of Tungsten Carbide Using an Oxygen-Containing Molten Salt. <i>Journal of the Electrochemical Society</i> , 2021, 168, 056513.	1.3	8
135	Temperature-Responsive Self-Assembly of Single Polyoxometalates Clusters Driven by Hydrogen Bonds. <i>Advanced Functional Materials</i> , 2021, 31, 2103561.	7.8	12
136	A Unique Gas-Migration, Trapping, and Emitting Strategy for High-Loading Single Atomic Cd Sites for Carbon Dioxide Electroreduction. <i>Nano Letters</i> , 2021, 21, 4262-4269.	4.5	48
137	High-Index Faceted PdPtCu Ultrathin Nanorings Enable Highly Active and Stable Oxygen Reduction Electrocatalysis. <i>Small Methods</i> , 2021, 5, e2100154.	4.6	34
138	A medium-range structure motif linking amorphous and crystalline states. <i>Nature Materials</i> , 2021, 20, 1347-1352.	13.3	92
139	Emergent Magnetic Phenomenon with Unconventional Structure in Epitaxial Manganate Thin Films. <i>Advanced Science</i> , 2021, 8, 2100177.	5.6	7
140	Addressing voltage decay in Li-rich cathodes by broadening the gap between metallic and anionic bands. <i>Nature Communications</i> , 2021, 12, 3071.	5.8	81
141	Unlocking the potential of P3 structure for practical Sodium-ion batteries by fabricating zero strain framework for Na ⁺ intercalation. <i>Energy Storage Materials</i> , 2021, 37, 354-362.	9.5	47
142	Imparting Ion Selectivity to Covalent Organic Framework Membranes Using <i>de Novo</i> Assembly for Blue Energy Harvesting. <i>Journal of the American Chemical Society</i> , 2021, 143, 9415-9422.	6.6	82
143	Co-deposition growth and superconductivity of La ^x Sr _{1-x} CuO ₄ films by reactive molecular beam epitaxy. <i>Physical Review B</i> , 2021, 103, .	1.1	1
144	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

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145	Matching the kinetics of natural enzymes with a single-atom iron nanozyme. <i>Nature Catalysis</i> , 2021, 4, 407-417.	16.1	517
146	One-step epitaxy of high-mobility La-doped BaSnO ₃ films by high-pressure magnetron sputtering. <i>APL Materials</i> , 2021, 9, .	2.2	16
147	Planar Coordination PdSe ₂ Nanosheets as Highly Active Electrocatalyst for Hydrogen Evolution Reaction. <i>Advanced Functional Materials</i> , 2021, 31, 2102321.	7.8	98
148	Synthesis and characterization of caprolactone based polyurethane with degradable and antifouling performance. <i>Chinese Journal of Chemical Engineering</i> , 2021, 34, 299-306.	1.7	6
149	Amorphous Redox-Rich Polysulfides for Mg Cathodes. <i>Jacs Au</i> , 2021, 1, 1266-1274.	3.6	14
150	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> , 2021, 60, 15248-15253.	7.2	38
151	Direct Observation of Metal Oxide Nanoparticles Being Transformed into Metal Single Atoms with Oxygen-Coordinated Structure and High Loadings. <i>Angewandte Chemie</i> , 2021, 133, 15376-15381.	1.6	24
152	Intrinsic toughening and stable crack propagation in hexagonal boron nitride. <i>Nature</i> , 2021, 594, 57-61.	13.7	105
153	Enhanced electric-field-induced strains in (K,Na)NbO ₃ piezoelectrics from heterogeneous structures. <i>Materials Today</i> , 2021, 46, 44-53.	8.3	36
154	Single-Crystal Inorganic Helical Architectures Induced by Asymmetrical Defects in Sub-Nanometric Wires. <i>Journal of the American Chemical Society</i> , 2021, 143, 9858-9865.	6.6	26
155	Enhancement of Spin-Orbit Torque by Strain Engineering in SrRuO ₃ Films. <i>Advanced Functional Materials</i> , 2021, 31, 2100380.	7.8	26
156	Presence of s -Wave Pairing in Josephson Junctions Made of Twisted Ultrathin Bi_2 Physical Review X, 2021, 11, .	2.8	34
157	A Self-Healable Polyelectrolyte Binder for Highly Stabilized Sulfur, Silicon, and Silicon Oxides Electrodes. <i>Advanced Functional Materials</i> , 2021, 31, 2104433.	7.8	41
158	Innen-Boosting Photocatalytic Water Oxidation Over Bifunctional Rh ₀ Rh ³⁺ Sites (Angew. Chem. 42/2021). <i>Angewandte Chemie</i> , 2021, 133, 23211-23211.	1.6	0
159	Electron density distribution of LiMn ₂ O ₄ cathode investigated by synchrotron powder x-ray diffraction*. <i>Chinese Physics B</i> , 2021, 30, 078202.	0.7	5
160	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> , 2021, 143, 10822-10827.	6.6	95
161	Boosting Photocatalytic Water Oxidation Over Bifunctional Rh ₀ Rh ³⁺ Sites. <i>Angewandte Chemie</i> , 2021, 133, 22943.	1.6	2
162	Lithium Argyrodite as Solid Electrolyte and Cathode Precursor for Solid-State Batteries with Long Cycle Life. <i>Advanced Energy Materials</i> , 2021, 11, 2101370.	10.2	56

#	ARTICLE	IF	CITATIONS
163	Hexagonal Nickel as a Highly Durable and Active Catalyst for Hydrogen Evolution. ACS Catalysis, 2021, 11, 8798-8806.	5.5	12
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191	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
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