

Bo-Long Huang

List of Publications by Year in descending order

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270
papers

19,667
citations

10389

72
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14208

128
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all docs

279
docs citations

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times ranked

15875
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiple structural defects in ultrathin NiFe-LDH nanosheets synergistically and remarkably boost water oxidation reaction. <i>Nano Research</i> , 2022, 15, 310-316.	10.4	65
2	Chiral self-assembly of terminal alkyne and selenium clusters organic-inorganic hybrid. <i>Nano Research</i> , 2022, 15, 2741-2745.	10.4	3
3	Engineering the synergistic effect of carbon dots-stabilized atomic and subnanometric ruthenium as highly efficient electrocatalysts for robust hydrogen evolution. <i>SmartMat</i> , 2022, 3, 249-259.	10.7	38
4	Graphdiyne-Induced Iron Vacancy for Efficient Nitrogen Conversion. <i>Advanced Science</i> , 2022, 9, e2102721.	11.2	28
5	New mode of stress sensing in multicolor (Ca1-Sr)8Mg3Al2Si7O28:Eu2+ solid-solution compounds. <i>Nano Energy</i> , 2022, 93, 106799.	16.0	14
6	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.	10.0	30
7	Mesoporosity-Enabled Selectivity of Mesoporous Palladium-Based Nanocrystals Catalysts in Semihydrogenation of Alkynes. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	6
8	Mesoporosity-Enabled Selectivity of Mesoporous Palladium-Based Nanocrystals Catalysts in Semihydrogenation of Alkynes. <i>Angewandte Chemie - International Edition</i> , 2022, 61, e202114539.	13.8	33
9	All-inorganic perovskite nanocrystals: next-generation scintillation materials for high-resolution X-ray imaging. <i>Nanoscale Advances</i> , 2022, 4, 680-696.	4.6	43
10	Few-Layer WS ₂ -WSe ₂ Lateral Heterostructures: Influence of the Gas Precursor Selenium/Tungsten Ratio on the Number of Layers. <i>ACS Nano</i> , 2022, 16, 1198-1207.	14.6	16
11	Electronic engineering of amorphous Fe-Co-S sites in hetero-nanoframes for oxygen evolution and flexible Al-air batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 19757-19768.	10.3	11
12	Hexagonal PtBi Intermetallic Inlaid with Sub-Monolayer Pb Oxyhydroxide Boosts Methanol Oxidation. <i>Small</i> , 2022, 18, e2107803.	10.0	24
13	Interface synergistic effects induced multi-mode luminescence. <i>Nano Research</i> , 2022, 15, 4457-4465.	10.4	21
14	Entanglement of Spatial and Energy Segmentation for C ₁ Pathways in CO ₂ Reduction on Carbon Skeleton Supported Atomic Catalysts. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	27
15	Atomic substitution effects of inorganic perovskites for optoelectronic properties modulations. <i>EcoMat</i> , 2022, 4, .	11.9	6
16	A highly ionic conductive succinonitrile-based composite solid electrolyte for lithium metal batteries. <i>Nano Research</i> , 2022, 15, 5153-5160.	10.4	26
17	Application of machine learning for advanced material prediction and design. <i>EcoMat</i> , 2022, 4, .	11.9	27
18	Ultrastable bimetallic Fe ₂ Mo for efficient oxygen reduction reaction in pH-universal applications. <i>Nano Research</i> , 2022, 15, 4950-4957.	10.4	8

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19	Non-noble metal-based bifunctional electrocatalysts for hydrogen production. <i>Rare Metals</i> , 2022, 41, 2169-2183.	7.1	62
20	A top-down strategy for amorphization of hydroxyl compounds for electrocatalytic oxygen evolution. <i>Nature Communications</i> , 2022, 13, 1187.	12.8	63
21	Manipulating Crystallization Kinetics in High-Performance Blade-Coated Perovskite Solar Cells via Cosolvent-Assisted Phase Transition. <i>Advanced Materials</i> , 2022, 34, e2200276.	21.0	64
22	Atomically precise bimetallic metal ensembles with tailorable synergistic effects. <i>Cell Reports Physical Science</i> , 2022, , 100850.	5.6	5
23	Confined Growth of Silver-Copper Janus Nanostructures with {100} Facets for Highly Selective Tandem Electrocatalytic Carbon Dioxide Reduction. <i>Advanced Materials</i> , 2022, 34, e2110607.	21.0	82
24	Highly Loaded Independent Pt ⁰ Atoms on Graphdiyne for pH-General Methanol Oxidation Reaction. <i>Advanced Science</i> , 2022, 9, e2104991.	11.2	26
25	Broadband multimodal emission in Sb-doped CaZnOS-layered semiconductors. <i>Science China Materials</i> , 2022, 65, 1329-1336.	6.3	8
26	Carboxylated carbon nanotubes with high electrocatalytic activity for oxygen evolution in acidic conditions. <i>Informa-Materials</i> , 2022, 4, .	17.3	21
27	Entanglement of Spatial and Energy Segmentation for C ₁ Pathways in CO ₂ Reduction on Carbon Skeleton Supported Atomic Catalysts (Adv. Energy Mater. 14/2022). <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	0
28	The self-complementary effect through strong orbital coupling in ultrathin high-entropy alloy nanowires boosting pH-universal multifunctional electrocatalysis. <i>Applied Catalysis B: Environmental</i> , 2022, 312, 121431.	20.2	40
29	New framework of integrated electrocatalysis systems for nitrogen fixation. <i>Journal of Materials Chemistry A</i> , 2022, 10, 19506-19517.	10.3	3
30	Tailoring Oxygen Reduction Reaction Pathway on Spinel Oxides via Surficial Geometrical Site Occupation Modification Driven by the Oxygen Evolution Reaction. <i>Advanced Materials</i> , 2022, 34, e2202874.	21.0	52
31	Flexible modulations on selectivity of syngas formation via CO ₂ reduction on atomic catalysts. <i>Nano Energy</i> , 2022, 99, 107382.	16.0	6
32	Rare-Earth-Based Perovskite Cs ₂ AgScCl ₆ :Bi for Strong Full Visible Spectrum Emission. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	32
33	Neighboring effects of active sites for CO ₂ transition to C ₁ products on atomic catalysts. <i>Nano Energy</i> , 2022, 99, 107398.	16.0	5
34	Controlling the Cation Exsolution of Perovskite to Customize Heterostructure Active Site for Oxygen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 25638-25647.	8.0	26
35	Boosting the Electrocatalytic Oxygen Evolution of Perovskite LaCo _{1-x} Fe _x O ₃ by the Construction of Yolk-Shell Nanostructures and Electronic Modulation. <i>Small</i> , 2022, 18, .	10.0	31
36	Solar-Driven Overproduction of Biofuels in Microorganisms. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	5

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37	A General Synthetic Method for High-Entropy Alloy Subnanometer Ribbons. <i>Journal of the American Chemical Society</i> , 2022, 144, 10582-10590.	13.7	108
38	The interfacial effect induced by rare earth oxide in boosting the conversion of CO ₂ to formate. <i>Energy and Environmental Science</i> , 2022, 15, 3494-3502.	30.8	25
39	Exposed facet-controlled N ₂ electroreduction on distinct Pt ₃ Fe nanostructures of nanocubes, nanorods and nanowires. <i>National Science Review</i> , 2021, 8, nwaa088.	9.5	39
40	High energy X-ray radiation sensitive scintillating materials for medical imaging, cancer diagnosis and therapy. <i>Nano Energy</i> , 2021, 79, 105437.	16.0	95
41	WO _x Surface Decorated PtNi@Pt Dendritic Nanowires as Efficient pH-Universal Hydrogen Evolution Electrocatalysts. <i>Advanced Energy Materials</i> , 2021, 11, 2003192.	19.5	82
42	Multi-Site Electrocatalysts Boost pH-Universal Nitrogen Reduction by High-Entropy Alloys. <i>Advanced Functional Materials</i> , 2021, 31, 2006939.	14.9	99
43	Alloyed Palladium-Silver Nanowires Enabling Ultrastable Carbon Dioxide Reduction to Formate. <i>Advanced Materials</i> , 2021, 33, e2005821.	21.0	73
44	Atomically targeting NiFe LDH to create multivacancies for OER catalysis with a small organic anchor. <i>Nano Energy</i> , 2021, 81, 105606.	16.0	204
45	The facile oil-phase synthesis of a multi-site synergistic high-entropy alloy to promote the alkaline hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2021, 9, 889-893.	10.3	80
46	Two-Dimensional Metal-Organic Frameworks-Based Electrocatalysts for Oxygen Evolution and Oxygen Reduction Reactions. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2000067.	5.8	29
47	Exploiting Ru-Induced Lattice Strain in CoRu Nanoalloys for Robust Bifunctional Hydrogen Production. <i>Angewandte Chemie</i> , 2021, 133, 3327-3335.	2.0	189
48	Exploiting Ru-Induced Lattice Strain in CoRu Nanoalloys for Robust Bifunctional Hydrogen Production. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 3290-3298.	13.8	254
49	Multimodal channel cancer chemotherapy by 2D functional gadolinium metal-organic framework. <i>National Science Review</i> , 2021, 8, nwaa221.	9.5	31
50	Graphdiyne-based metal atomic catalysts for synthesizing ammonia. <i>National Science Review</i> , 2021, 8, nwaa213.	9.5	110
51	Palladium-Silver Nanowires: Alloyed Palladium-Silver Nanowires Enabling Ultrastable Carbon Dioxide Reduction to Formate (<i>Adv. Mater.</i> 4/2021). <i>Advanced Materials</i> , 2021, 33, 2170027.	21.0	1
52	Lanthanide electronic perturbation in Pt-Ln (La, Ce, Pr and Nd) alloys for enhanced methanol oxidation reaction activity. <i>Energy and Environmental Science</i> , 2021, 14, 5911-5918.	30.8	65
53	Native point defect modulated Cr ³⁺ -LaAlO ₃ as an <i>in vitro</i> excited contrast medium for <i>in vivo</i> near-infrared persistent deep-tissue bio-imaging. <i>Chemical Communications</i> , 2021, 57, 9366-9369.	4.1	9
54	Non-equilibrium insertion of lithium ions into graphite. <i>Journal of Materials Chemistry A</i> , 2021, 9, 12080-12086.	10.3	15

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55	Grain-Boundary-Engineered $\text{La}_{2-x}\text{CuO}_4$ Perovskite Nanobamboos for Efficient CO_2 Reduction Reaction. <i>Nano Letters</i> , 2021, 21, 980-987.	9.1	68
56	High-performance diluted nickel nanoclusters decorating ruthenium nanowires for pH-universal overall water splitting. <i>Energy and Environmental Science</i> , 2021, 14, 3194-3202.	30.8	53
57	Graphdiyne Ultrathin Nanosheets for Efficient Water Splitting. <i>Advanced Functional Materials</i> , 2021, 31, 2010112.	14.9	35
58	Revisiting an ancient inorganic aggregation-induced emission system: An enlightenment to clusteroluminescence. <i>Aggregate</i> , 2021, 2, e36.	9.9	40
59	A highly efficient atomically thin curved PdIr bimetallic electrocatalyst. <i>National Science Review</i> , 2021, 8, nwab019.	9.5	59
60	High-resolution X-ray luminescence extension imaging. <i>Nature</i> , 2021, 590, 410-415.	27.8	378
61	Self-Validated Machine Learning Study of Graphdiyne-Based Dual Atomic Catalyst. <i>Advanced Energy Materials</i> , 2021, 11, 2003796.	19.5	57
62	TM LDH Meets Birnessite: A 2D-2D Hybrid Catalyst with Long-Term Stability for Water Oxidation at Industrial Operating Conditions. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 9699-9705.	13.8	57
63	Understanding contact electrification at liquid-solid interfaces from surface electronic structure. <i>Nature Communications</i> , 2021, 12, 1752.	12.8	56
64	Self-Recoverable Mechanically Induced Instant Luminescence from Cr^{3+} -Doped LiGa_5O_8 . <i>Advanced Functional Materials</i> , 2021, 31, 2010685.	14.9	84
65	Electronic View of Triboelectric Nanogenerator for Energy Harvesting: Mechanisms and Applications. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2000087.	5.8	4
66	Discovering and Dissecting Mechanically Excited Luminescence of Mn^{2+} Activators via Matrix Microstructure Evolution. <i>Advanced Functional Materials</i> , 2021, 31, 2100221.	14.9	24
67	TM LDH Meets Birnessite: A 2D-2D Hybrid Catalyst with Long-Term Stability for Water Oxidation at Industrial Operating Conditions. <i>Angewandte Chemie</i> , 2021, 133, 9785-9791.	2.0	3
68	Metallated Graphynes as a New Class of Photofunctional 2D Organometallic Nanosheets. <i>Angewandte Chemie</i> , 2021, 133, 11427-11435.	2.0	3
69	Direct Observation of Heterogeneous Surface Reactivity and Reconstruction on Terminations of Grain Boundaries of Platinum. <i>ACS Nano</i> , 2021, 3, 622-629.		14
70	Au Clusters on Pd Nanosheets Selectively Switch the Pathway of Ethanol Electrooxidation: Amorphous/Crystalline Interface Matters. <i>Advanced Energy Materials</i> , 2021, 11, 2100187.	19.5	113
71	Metallated Graphynes as a New Class of Photofunctional 2D Organometallic Nanosheets. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11326-11334.	13.8	34
72	Atomic Sulfur Filling Oxygen Vacancies Optimizes H Absorption and Boosts the Hydrogen Evolution Reaction in Alkaline Media. <i>Angewandte Chemie</i> , 2021, 133, 14236-14242.	2.0	27

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73	Atomic Sulfur Filling Oxygen Vacancies Optimizes H Absorption and Boosts the Hydrogen Evolution Reaction in Alkaline Media. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 14117-14123.	13.8	129
74	A chemical etching strategy to improve and stabilize RuO ₂ -based nanoassemblies for acidic oxygen evolution. <i>Nano Energy</i> , 2021, 84, 105909.	16.0	58
75	Stepping Out of Transition Metals: Activating the Dual Atomic Catalyst through Main Group Elements. <i>Advanced Energy Materials</i> , 2021, 11, 2101404.	19.5	33
76	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.	13.7	26
77	Decoding of crystal synthesis of fcc-hcp reversible transition for metals: theoretical mechanistic study from facet control to phase transition engineering. <i>Nano Energy</i> , 2021, 85, 106026.	16.0	7
78	Oxygen-incorporated NiMoP Nanotube Arrays as Efficient Bifunctional Electrocatalysts For Urea-Assisted Energy-Saving Hydrogen Production in Alkaline Electrolyte. <i>Advanced Functional Materials</i> , 2021, 31, 2104951.	14.9	247
79	Unraveling the anomalous mechanoluminescence intensity change and pressure-induced red-shift for manganese-doped zinc sulfide. <i>Nano Energy</i> , 2021, 85, 106005.	16.0	19
80	Atomic Imaging of Electrically Switchable Striped Domains in In_2Se_3 . <i>Advanced Science</i> , 2021, 8, e2100713.	11.2	22
81	Segmented Au/PtCo heterojunction nanowires for efficient formic acid oxidation catalysis. <i>Fundamental Research</i> , 2021, 1, 453-460.	3.3	8
82	Supramolecular Anchoring Strategy for Facile Production of Ruthenium Nanoparticles Embedded in N-Doped Mesoporous Carbon Nanospheres for Efficient Hydrogen Generation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 32997-33005.	8.0	11
83	Dilute Aqueous Aprotic Hybrid Electrolyte Enabling a Wide Electrochemical Window through Solvation Structure Engineering. <i>Advanced Materials</i> , 2021, 33, e2102390.	21.0	28
84	Phase-Dependent Electrocatalytic CO ₂ Reduction on Pd ₃ Bi Nanocrystals. <i>Angewandte Chemie</i> , 2021, 133, 21909-21913.	2.0	11
85	Phase-Dependent Electrocatalytic CO ₂ Reduction on Pd ₃ Bi Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 21741-21745.	13.8	59
86	Electronic modification in graphdiyne for future electrocatalytic applications. <i>2D Materials</i> , 2021, 8, 044009.	4.4	6
87	Atomic-Strain Mapping of High-Index Facets in Late-Transition Metal Nanoparticles for Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 22996-23001.	13.8	16
88	Atomic-Strain Mapping of High-Index Facets in Late-Transition Metal Nanoparticles for Electrocatalysis. <i>Angewandte Chemie</i> , 2021, 133, 23178.	2.0	0
89	A New Hexagonal Cobalt Nanosheet Catalyst for Selective CO ₂ Conversion to Ethanol. <i>Journal of the American Chemical Society</i> , 2021, 143, 15335-15343.	13.7	64
90	Highly Controllable Hierarchically Porous Ag/Ag ₂ S Heterostructure by Cation Exchange for Efficient Hydrogen Evolution. <i>Small</i> , 2021, 17, e2103064.	10.0	25

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91	Uncovering the Promotion of CeO ₂ /CoS _{1.97} Heterostructure with Specific Spatial Architectures on Oxygen Evolution Reaction. <i>Advanced Materials</i> , 2021, 33, e2102593.	21.0	118
92	A newly-explored Pd-based nanocrystal for the pH-universal electrosynthesis of H ₂ O ₂ . <i>Nano Energy</i> , 2021, 89, 106480.	16.0	25
93	A Review on CeO ₂ -Based Electrocatalyst and Photocatalyst in Energy Conversion. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2000063.	5.8	60
94	A highly active CH ₄ catalyst correlated with solid oxide fuel cell anode performance. <i>Journal of Materials Chemistry A</i> , 2021, 9, 5067-5074.	10.3	15
95	Graphdiyne based catalysts for energy applications. <i>Materials Chemistry Frontiers</i> , 2021, 5, 7369-7383.	5.9	15
96	Gram-scale Synthesis of Nanosized Li ₃ HoBr ₆ Solid Electrolyte for All-Solid-State Li-Se Battery. <i>Small Methods</i> , 2021, 5, e2101002.	8.6	22
97	Compensating Electronic Effect Enables Fast Site-to-Site Electron Transfer over Ultrathin RuMn Nanosheet Branches toward Highly Electroactive and Stable Water Splitting. <i>Advanced Materials</i> , 2021, 33, e2105308.	21.0	73
98	Fast Li-ion Conductor of Li ₃ HoBr ₆ for Stable All-Solid-State Lithium-Sulfur Battery. <i>Nano Letters</i> , 2021, 21, 9325-9331.	9.1	41
99	Effective Repeatable Mechanoluminescence in Heterostructured Li _{1-x} Na _x NbO ₃ : Pr ³⁺ . <i>Small</i> , 2021, 17, e2103441.	10.0	26
100	Synergistic Effect of Graphdiyne-based Electrocatalysts. <i>Chemical Research in Chinese Universities</i> , 2021, 37, 1242-1256.	2.6	7
101	Subnanometer high-entropy alloy nanowires enable remarkable hydrogen oxidation catalysis. <i>Nature Communications</i> , 2021, 12, 6261.	12.8	169
102	Tunable CO/H ₂ ratios of electrochemical reduction of CO ₂ through the Zn-Ln dual atomic catalysts. <i>Science Advances</i> , 2021, 7, eabl4915.	10.3	82
103	Unexpected high selectivity for acetate formation from CO ₂ reduction with copper based 2D hybrid catalysts at ultralow potentials. <i>Chemical Science</i> , 2021, 12, 15382-15388.	7.4	19
104	Controlled synthesis of Bi- and tri-nuclear Cu-oxo nanoclusters on metal-organic frameworks and the structure-reactivity correlations. <i>Chemical Science</i> , 2021, 13, 50-58.	7.4	5
105	Atomically Dispersed Cu Catalyst for Efficient Chemoselective Hydrogenation Reaction. <i>Nano Letters</i> , 2021, 21, 10284-10291.	9.1	85
106	Differential Adsorption of L-lysine on Achiral MFI Zeolites as Determined by Synchrotron X-Ray Powder Diffraction and Thermogravimetric Analysis. <i>Angewandte Chemie</i> , 2020, 132, 1109-1113.	2.0	6
107	The Spacer Cations Interplay for Efficient and Stable Layered 2D Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2020, 10, 1901566.	19.5	89
108	Differential Adsorption of L- and D-lysine on Achiral MFI Zeolites as Determined by Synchrotron X-Ray Powder Diffraction and Thermogravimetric Analysis. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 1093-1097.	13.8	12

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109	Efficient Optimization of Electron/Oxygen Pathway by Constructing Ceria/Hydroxide Interface for Highly Active Oxygen Evolution Reaction. <i>Advanced Functional Materials</i> , 2020, 30, 1908367.	14.9	120
110	Surface oxygen-mediated ultrathin PtRuM (Ni, Fe, and Co) nanowires boosting methanol oxidation reaction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 2323-2330.	10.3	67
111	On-Demand, Ultrasensitive Hydrogenation System Enabled by Precisely Modulated Pd ⁴⁺ Cd Nanocubes. <i>Journal of the American Chemical Society</i> , 2020, 142, 962-972.	13.7	53
112	Kinetic ² -Oriented Construction of MoS ₂ Synergistic Interface to Boost pH ^U -Universal Hydrogen Evolution. <i>Advanced Functional Materials</i> , 2020, 30, 1908520.	14.9	59
113	Crystal ^{Phase} -Engineered PdCu Electrocatalyst for Enhanced Ammonia Synthesis. <i>Angewandte Chemie</i> , 2020, 132, 2671-2675.	2.0	93
114	Crystal ^{Phase} -Engineered PdCu Electrocatalyst for Enhanced Ammonia Synthesis. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 2649-2653.	13.8	131
115	Hydrogen Evolution Electrocatalysis: Interface Modulation of MoS ₂ /Metal Oxide Heterostructures for Efficient Hydrogen Evolution Electrocatalysis (Small 28/2020). <i>Small</i> , 2020, 16, 2070158.	10.0	2
116	Self-Elimination of Intrinsic Defects Improves the Low-Temperature Performance of Perovskite Photovoltaics. <i>Joule</i> , 2020, 4, 1961-1976.	24.0	152
117	Highly efficient catalysts for oxygen reduction using well-dispersed iron carbide nanoparticles embedded in multichannel hollow nanofibers. <i>Journal of Materials Chemistry A</i> , 2020, 8, 18125-18131.	10.3	23
118	Fabrication of layered double hydroxide microcapsules mediated by cerium doping in metal ^{organic} frameworks for boosting water splitting. <i>Energy and Environmental Science</i> , 2020, 13, 2949-2956.	30.8	126
119	Loading Copper Atoms on Graphdiyne for Highly Efficient Hydrogen Production. <i>ChemPhysChem</i> , 2020, 21, 2145-2149.	2.1	40
120	Atomically deviated Pd-Te nanoplates boost methanol-tolerant fuel cells. <i>Science Advances</i> , 2020, 6, eaba9731.	10.3	78
121	Fast site-to-site electron transfer of high-entropy alloy nanocatalyst driving redox electrocatalysis. <i>Nature Communications</i> , 2020, 11, 5437.	12.8	288
122	Iridium Single Atoms Coupling with Oxygen Vacancies Boosts Oxygen Evolution Reaction in Acid Media. <i>Journal of the American Chemical Society</i> , 2020, 142, 18378-18386.	13.7	334
123	NiCo ₂ O ₄ -Based Nanosheets with Uniform 4 nm Mesopores for Excellent Zn ^{Air} Battery Performance. <i>Advanced Materials</i> , 2020, 32, e2001651.	21.0	120
124	Multimodal Luminescent Yb ³⁺ /Er ³⁺ /Bi ³⁺ -Doped Perovskite Single Crystals for X ^{ray} Detection and Anti ^{Counterfeiting} . <i>Advanced Materials</i> , 2020, 32, e2004506.	21.0	187
125	Selective Surface Reconstruction of a Defective Iridium ^{Based} Catalyst for High ^{Efficiency} Water Splitting. <i>Advanced Functional Materials</i> , 2020, 30, 2004375.	14.9	85
126	Probing the Irregular Lattice Strain ^{Induced} Electronic Structure Variations on Late Transition Metals for Boosting the Electrocatalyst Activity. <i>Small</i> , 2020, 16, e2002434.	10.0	15

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127	Boosted Oxygen Evolution Reactivity via Atomic Iron Doping in Cobalt Carbonate Hydroxide Hydrate. ACS Applied Materials & Interfaces, 2020, 12, 40220-40228.	8.0	42
128	Atomic PdAu Interlayer Sandwiched into Pd/Pt Core/Shell Nanowires Achieves Superstable Oxygen Reduction Catalysis. ACS Nano, 2020, 14, 11570-11578.	14.6	84
129	Electronic Tunability and Mobility Anisotropy of Quasi-2D Perovskite Single Crystals with Varied Spacer Cations. Journal of Physical Chemistry Letters, 2020, 11, 7610-7616.	4.6	35
130	Water Splitting: High-Index Faceted RuCo Nanoscrews for Water Electrosplitting (Adv. Energy Mater.)	19.5	58
131	Designing the future atomic electrocatalyst for efficient energy systems. Engineering Reports, 2020, 2, e12327.	1.7	5
132	When rare earth meets carbon nanodots: mechanisms, applications and outlook. Chemical Society Reviews, 2020, 49, 9220-9248.	38.1	61
133	High-Index Faceted RuCo Nanoscrews for Water Electrosplitting. Advanced Energy Materials, 2020, 10, 2002860.	19.5	58
134	A Generalized Surface Chalcogenation Strategy for Boosting the Electrochemical N ₂ Fixation of Metal Nanocrystals. Advanced Materials, 2020, 32, e2001267.	21.0	105
135	Graphdiyne Interface Engineering: Highly Active and Selective Ammonia Synthesis. Angewandte Chemie, 2020, 132, 13121-13127.	2.0	15
136	Interface Modulation of MoS ₂ /Metal Oxide Heterostructures for Efficient Hydrogen Evolution Electrocatalysis. Small, 2020, 16, e2002212.	10.0	68
137	Ultrathin RuRh Alloy Nanosheets Enable High-Performance Lithium-CO ₂ Battery. Matter, 2020, 2, 1494-1508.	10.0	91
138	General synthesis of two-dimensional van der Waals heterostructure arrays. Nature, 2020, 579, 368-374.	27.8	393
139	2D graphdiyne loading ruthenium atoms for high efficiency water splitting. Nano Energy, 2020, 72, 104667.	16.0	91
140	A ZnS/CaZnOS Heterojunction for Efficient Mechanical-to-Optical Energy Conversion by Conduction Band Offset. Advanced Materials, 2020, 32, e1907747.	21.0	114
141	Strain modulation of phase transformation of noble metal nanomaterials. Informa-Materially, 2020, 2, 715-734.	17.3	38
142	High-efficiency direct methane conversion to oxygenates on a cerium dioxide nanowires supported rhodium single-atom catalyst. Nature Communications, 2020, 11, 954.	12.8	152
143	Accelerating Atomic Catalyst Discovery by Theoretical Calculations-Machine Learning Strategy. Advanced Energy Materials, 2020, 10, 1903949.	19.5	99
144	Rare-earth-containing perovskite nanomaterials: design, synthesis, properties and applications. Chemical Society Reviews, 2020, 49, 1109-1143.	38.1	211

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145	A full picture of intrinsic defects induced self-activation of elastic potential fluctuation within monolayered metal chalcogenide. <i>Nano Energy</i> , 2020, 70, 104530.	16.0	2
146	Anion charge density disturbance induces in-plane instabilities within 2D lateral heterojunction of TMD: An atomic view. <i>Nano Energy</i> , 2020, 70, 104484.	16.0	6
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