

Bo-Long Huang

List of Publications by Year in descending order

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270
papers

19,667
citations

10351

72
h-index

14156

128
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all docs

279
docs citations

279
times ranked

15875
citing authors

#	ARTICLE	IF	CITATIONS
1	All-inorganic perovskite nanocrystal scintillators. <i>Nature</i> , 2018, 561, 88-93.	13.7	1,274
2	A Eu ³⁺ -Eu ²⁺ ion redox shuttle imparts operational durability to Pb-I perovskite solar cells. <i>Science</i> , 2019, 363, 265-270.	6.0	793
3	Anchoring zero valence single atoms of nickel and iron on graphdiyne for hydrogen evolution. <i>Nature Communications</i> , 2018, 9, 1460.	5.8	781
4	Highly Efficient and Selective Generation of Ammonia and Hydrogen on a Graphdiyne-Based Catalyst. <i>Journal of the American Chemical Society</i> , 2019, 141, 10677-10683.	6.6	474
5	General synthesis of two-dimensional van der Waals heterostructure arrays. <i>Nature</i> , 2020, 579, 368-374.	13.7	393
6	High-resolution X-ray luminescence extension imaging. <i>Nature</i> , 2021, 590, 410-415.	13.7	378
7	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.	6.6	334
8	Amorphization activated ruthenium-tellurium nanorods for efficient water splitting. <i>Nature Communications</i> , 2019, 10, 5692.	5.8	312
9	Fast site-to-site electron transfer of high-entropy alloy nanocatalyst driving redox electrocatalysis. <i>Nature Communications</i> , 2020, 11, 5437.	5.8	288
10	Overall water splitting by graphdiyne-exfoliated and -sandwiched layered double-hydroxide nanosheet arrays. <i>Nature Communications</i> , 2018, 9, 5309.	5.8	287
11	Engineering stepped edge surface structures of MoS ₂ sheet stacks to accelerate the hydrogen evolution reaction. <i>Energy and Environmental Science</i> , 2017, 10, 593-603.	15.6	284
12	Strongly Coupled Nickel-Cobalt Nitrides/Carbon Hybrid Nanocages with Pt-Like Activity for Hydrogen Evolution Catalysis. <i>Advanced Materials</i> , 2019, 31, e1805541.	11.1	276
13	Channel-Rich RuCu Nanosheets for pH-Universal Overall Water Splitting Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 13983-13988.	7.2	274
14	Confining Excitation Energy in Er ³⁺ -Sensitized Upconversion Nanocrystals through Tm ³⁺ -Mediated Transient Energy Trapping. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7605-7609.	7.2	259
15	Exploiting Ru-Induced Lattice Strain in CoRu Nanoalloys for Robust Bifunctional Hydrogen Production. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 3290-3298.	7.2	254
16	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.	7.8	247
17	Ultrathin PtNiM (M = Rh, Os, and Ir) Nanowires as Efficient Fuel Oxidation Electrocatalytic Materials. <i>Advanced Materials</i> , 2019, 31, e1805833.	11.1	223
18	Rare-earth-containing perovskite nanomaterials: design, synthesis, properties and applications. <i>Chemical Society Reviews</i> , 2020, 49, 1109-1143.	18.7	211

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19	Bonding origin of optical contrast in phase-change memory materials. <i>Physical Review B</i> , 2010, 81, .	1.1	209
20	Atomically targeting NiFe LDH to create multivacancies for OER catalysis with a small organic anchor. <i>Nano Energy</i> , 2021, 81, 105606.	8.2	204
21	Exploiting Ru-Induced Lattice Strain in CoRu Nanoalloys for Robust Bifunctional Hydrogen Production. <i>Angewandte Chemie</i> , 2021, 133, 3327-3335.	1.6	189
22	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.	11.1	187
23	Impacts of alkaline on the defects property and crystallization kinetics in perovskite solar cells. <i>Nature Communications</i> , 2019, 10, 1112.	5.8	185
24	Atomic Arrangement in Metal-Doped NiS ₂ Boosts the Hydrogen Evolution Reaction in Alkaline Media. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 18676-18682.	7.2	174
25	Subnanometer high-entropy alloy nanowires enable remarkable hydrogen oxidation catalysis. <i>Nature Communications</i> , 2021, 12, 6261.	5.8	169
26	A General Method for Transition Metal Single Atoms Anchored on Honeycomb-Like Nitrogen-Doped Carbon Nanosheets. <i>Advanced Materials</i> , 2020, 32, e1906905.	11.1	163
27	Graphdiyne Interface Engineering: Highly Active and Selective Ammonia Synthesis. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 13021-13027.	7.2	154
28	Intermetallic hcp-PtBi/fcc-Pt Core/Shell Nanoplates Enable Efficient Bifunctional Oxygen Reduction and Methanol Oxidation Electrocatalysis. <i>ACS Catalysis</i> , 2018, 8, 5581-5590.	5.5	153
29	Self-Elimination of Intrinsic Defects Improves the Low-Temperature Performance of Perovskite Photovoltaics. <i>Joule</i> , 2020, 4, 1961-1976.	11.7	152
30	High-efficiency direct methane conversion to oxygenates on a cerium dioxide nanowires supported rhodium single-atom catalyst. <i>Nature Communications</i> , 2020, 11, 954.	5.8	152
31	Co ₃ O ₄ /Fe _{0.33} Co _{0.66} P Interface Nanowire for Enhancing Water Oxidation Catalysis at High Current Density. <i>Advanced Materials</i> , 2018, 30, e1803551.	11.1	150
32	Ultrathin Nanosheet of Graphdiyne-Supported Palladium Atom Catalyst for Efficient Hydrogen Production. <i>IScience</i> , 2019, 11, 31-41.	1.9	149
33	Toward Bi ³⁺ Red Luminescence with No Visible Reabsorption through Manageable Energy Interaction and Crystal Defect Modulation in Single Bi ³⁺ -Doped ZnWO ₄ Crystal. <i>Chemistry of Materials</i> , 2017, 29, 8412-8424.	3.2	148
34	Interfacial Defect Engineering for Improved Portable Zinc-Air Batteries with a Broad Working Temperature. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9459-9463.	7.2	139
35	Multimetal Borides Nanochains as Efficient Electrocatalysts for Overall Water Splitting. <i>Small</i> , 2019, 15, e1804212.	5.2	135
36	Crystal-Phase-Engineered PdCu Electrocatalyst for Enhanced Ammonia Synthesis. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 2649-2653.	7.2	131

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37	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.	7.2	129
38	Piezophotonic effect based on mechanoluminescent materials for advanced flexible optoelectronic applications. <i>Nano Energy</i> , 2019, 55, 389-400.	8.2	126
39	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.	15.6	126
40	Fluorographdiyne: A Metal-Free Catalyst for Applications in Water Reduction and Oxidation. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 13897-13903.	7.2	123
41	Mechanically Excited Multicolor Luminescence in Lanthanide Ions. <i>Advanced Materials</i> , 2019, 31, e1807062.	11.1	120
42	Transition metal-doped nickel phosphide nanoparticles as electro- and photocatalysts for hydrogen generation reactions. <i>Applied Catalysis B: Environmental</i> , 2019, 242, 186-193.	10.8	120
43	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.	7.8	120
44	NiCo ₂ O ₄ -Based Nanosheets with Uniform 4 nm Mesopores for Excellent Zn-Air Battery Performance. <i>Advanced Materials</i> , 2020, 32, e2001651.	11.1	120
45	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.	11.1	118
46	Wrinkled Rh ₂ P Nanosheets as Superior pH-Universal Electrocatalysts for Hydrogen Evolution Catalysis. <i>Advanced Energy Materials</i> , 2018, 8, 1801891.	10.2	116
47	A ZnS/CaZnOS Heterojunction for Efficient Mechanical-to-Optical Energy Conversion by Conduction Band Offset. <i>Advanced Materials</i> , 2020, 32, e1907747.	11.1	114
48	Au Clusters on Pd Nanosheets Selectively Switch the Pathway of Ethanol Electrooxidation: Amorphous/Crystalline Interface Matters. <i>Advanced Energy Materials</i> , 2021, 11, 2100187.	10.2	113
49	A General Strategy to Glassy MTe (M = Ru, Rh, Ir) Porous Nanorods for Efficient Electrochemical N ₂ Fixation. <i>Advanced Materials</i> , 2020, 32, e1907112.	11.1	111
50	Graphdiyne-based metal atomic catalysts for synthesizing ammonia. <i>National Science Review</i> , 2021, 8, nwa213.	4.6	110
51	Locally collective hydrogen bonding isolates lead octahedra for white emission improvement. <i>Nature Communications</i> , 2019, 10, 5190.	5.8	109
52	A General Synthetic Method for High-Entropy Alloy Subnanometer Ribbons. <i>Journal of the American Chemical Society</i> , 2022, 144, 10582-10590.	6.6	108
53	A Generalized Surface Chalcogenation Strategy for Boosting the Electrochemical N ₂ Fixation of Metal Nanocrystals. <i>Advanced Materials</i> , 2020, 32, e2001267.	11.1	105
54	Oxygen Vacancies on Layered Niobic Acid That Weaken the Catalytic Conversion of Polysulfides in Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11491-11496.	7.2	104

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55	Integrating temporal and spatial control of electronic transitions for bright multiphoton upconversion. <i>Nature Communications</i> , 2019, 10, 1811.	5.8	104
56	Coupled s-p-d Exchange in Facet-Controlled Pd ₃ Pb Tripods Enhances Oxygen Reduction Catalysis. <i>CheM</i> , 2018, 4, 359-371.	5.8	100
57	Accelerating Atomic Catalyst Discovery by Theoretical Calculationsâ€Machine Learning Strategy. <i>Advanced Energy Materials</i> , 2020, 10, 1903949.	10.2	99
58	Multiâ€Site Electrocatalysts Boost pHâ€Universal Nitrogen Reduction by Highâ€Entropy Alloys. <i>Advanced Functional Materials</i> , 2021, 31, 2006939.	7.8	99
59	pH-Universal Water Splitting Catalyst: Ru-Ni Nanosheet Assemblies. <i>IScience</i> , 2019, 11, 492-504.	1.9	97
60	Platinum Porous Nanosheets with High Surface Distortion and Pt Utilization for Enhanced Oxygen Reduction Catalysis. <i>Advanced Functional Materials</i> , 2019, 29, 1904429.	7.8	96
61	High energy X-ray radiation sensitive scintillating materials for medical imaging, cancer diagnosis and therapy. <i>Nano Energy</i> , 2021, 79, 105437.	8.2	95
62	Crystalâ€Phaseâ€Engineered PdCu Electrocatalyst for Enhanced Ammonia Synthesis. <i>Angewandte Chemie</i> , 2020, 132, 2671-2675.	1.6	93
63	Ultrathin RuRh Alloy Nanosheets Enable High-Performance Lithium-CO ₂ Battery. <i>Matter</i> , 2020, 2, 1494-1508.	5.0	91
64	2D graphdiyne loading ruthenium atoms for high efficiency water splitting. <i>Nano Energy</i> , 2020, 72, 104667.	8.2	91
65	The Spacer Cations Interplay for Efficient and Stable Layered 2D Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2020, 10, 1901566.	10.2	89
66	Study of CeO ₂ and Its Native Defects by Density Functional Theory with Repulsive Potential. <i>Journal of Physical Chemistry C</i> , 2014, 118, 24248-24256.	1.5	86
67	Selective Surface Reconstruction of a Defective Iridiumâ€Based Catalyst for Highâ€Efficiency Water Splitting. <i>Advanced Functional Materials</i> , 2020, 30, 2004375.	7.8	85
68	Atomically Dispersed Cu Catalyst for Efficient Chemoselective Hydrogenation Reaction. <i>Nano Letters</i> , 2021, 21, 10284-10291.	4.5	85
69	Atomic PdAu Interlayer Sandwiched into Pd/Pt Core/Shell Nanowires Achieves Superstable Oxygen Reduction Catalysis. <i>ACS Nano</i> , 2020, 14, 11570-11578.	7.3	84
70	Selfâ€Recoverable Mechanically Induced Instant Luminescence from Cr ³⁺ â€Doped LiGa ₅ O ₈ . <i>Advanced Functional Materials</i> , 2021, 31, 2010685.	7.8	84
71	Barrier-free Interface Electron Transfer on PtFe-Fe ₂ C Janus-like Nanoparticles Boosts Oxygen Catalysis. <i>CheM</i> , 2018, 4, 1153-1166.	5.8	82
72	WO _x â€Surface Decorated PtNi@Pt Dendritic Nanowires as Efficient pHâ€Universal Hydrogen Evolution Electrocatalysts. <i>Advanced Energy Materials</i> , 2021, 11, 2003192.	10.2	82

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73	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.	4.7	82
74	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.	11.1	82
75	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.	5.2	80
76	Defect Engineering of Palladium-Tin Nanowires Enables Efficient Electrocatalysts for Fuel Cell Reactions. <i>Nano Letters</i> , 2019, 19, 6894-6903.	4.5	79
77	Advanced Ultrathin RuPdM (M = Ni, Co, Fe) Nanosheets Electrocatalyst Boosts Hydrogen Evolution. <i>ACS Central Science</i> , 2019, 5, 1991-1997.	5.3	78
78	Atomically deviated Pd-Te nanoplates boost methanol-tolerant fuel cells. <i>Science Advances</i> , 2020, 6, eaba9731.	4.7	78
79	Tailored transition metal-doped nickel phosphide nanoparticles for the electrochemical oxygen evolution reaction (OER). <i>Chemical Communications</i> , 2018, 54, 8630-8633.	2.2	73
80	Alloyed Palladium-Silver Nanowires Enabling Ultrastable Carbon Dioxide Reduction to Formate. <i>Advanced Materials</i> , 2021, 33, e2005821.	11.1	73
81	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.	11.1	73
82	Interface Modulation of MoS ₂ /Metal Oxide Heterostructures for Efficient Hydrogen Evolution Electrocatalysis. <i>Small</i> , 2020, 16, e2002212.	5.2	68
83	Grain-Boundary-Engineered La ₂ CuO ₄ Perovskite Nanobamboos for Efficient CO ₂ Reduction Reaction. <i>Nano Letters</i> , 2021, 21, 980-987.	4.5	68
84	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.	5.2	67
85	Theory of piezotronics and piezo-phototronics. <i>MRS Bulletin</i> , 2018, 43, 928-935.	1.7	66
86	Exploring Bi ₂ Te ₃ Nanoplates as Versatile Catalysts for Electrochemical Reduction of Small Molecules. <i>Advanced Materials</i> , 2020, 32, e1906477.	11.1	65
87	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.	15.6	65
88	Multiple structural defects in ultrathin NiFe-LDH nanosheets synergistically and remarkably boost water oxidation reaction. <i>Nano Research</i> , 2022, 15, 310-316.	5.8	65
89	Mapping of atomic catalyst on graphdiyne. <i>Nano Energy</i> , 2019, 62, 754-763.	8.2	64
90	A New Hexagonal Cobalt Nanosheet Catalyst for Selective CO ₂ Conversion to Ethanal. <i>Journal of the American Chemical Society</i> , 2021, 143, 15335-15343.	6.6	64

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91	Manipulating Crystallization Kinetics in High-Performance Blade-Coated Perovskite Solar Cells via Cosolvent-Assisted Phase Transition. <i>Advanced Materials</i> , 2022, 34, e2200276.	11.1	64
92	A top-down strategy for amorphization of hydroxyl compounds for electrocatalytic oxygen evolution. <i>Nature Communications</i> , 2022, 13, 1187.	5.8	63
93	Non-noble metal-based bifunctional electrocatalysts for hydrogen production. <i>Rare Metals</i> , 2022, 41, 2169-2183.	3.6	62
94	When rare earth meets carbon nanodots: mechanisms, applications and outlook. <i>Chemical Society Reviews</i> , 2020, 49, 9220-9248.	18.7	61
95	A Review on CeO ₂ -Based Electrocatalyst and Photocatalyst in Energy Conversion. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2000063.	2.8	60
96	Rationally engineered active sites for efficient and durable hydrogen generation. <i>Nature Communications</i> , 2019, 10, 2281.	5.8	59
97	Kinetic-Oriented Construction of MoS ₂ Synergistic Interface to Boost pH-Universal Hydrogen Evolution. <i>Advanced Functional Materials</i> , 2020, 30, 1908520.	7.8	59
98	A highly efficient atomically thin curved PdIr bimetallic electrocatalyst. <i>National Science Review</i> , 2021, 8, nwab019.	4.6	59
99	Phase-Dependent Electrocatalytic CO ₂ Reduction on Pd ₃ Bi Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 21741-21745.	7.2	59
100	Channel-Rich RuCu Nanosheets for pH-Universal Overall Water Splitting Electrocatalysis. <i>Angewandte Chemie</i> , 2019, 131, 14121-14126.	1.6	58
101	High-Index Faceted RuCo Nanoscrews for Water Electrosplitting. <i>Advanced Energy Materials</i> , 2020, 10, 2002860.	10.2	58
102	A chemical etching strategy to improve and stabilize RuO ₂ -based nanoassemblies for acidic oxygen evolution. <i>Nano Energy</i> , 2021, 84, 105909.	8.2	58
103	Self-Validated Machine Learning Study of Graphdiyne-Based Dual Atomic Catalyst. <i>Advanced Energy Materials</i> , 2021, 11, 2003796.	10.2	57
104	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.	7.2	57
105	Confining Excitation Energy in Er ³⁺ -Sensitized Upconversion Nanocrystals through Tm ³⁺ -Mediated Transient Energy Trapping. <i>Angewandte Chemie</i> , 2017, 129, 7713-7717.	1.6	56
106	Emerging role of machine learning in light-matter interaction. <i>Light: Science and Applications</i> , 2019, 8, 84.	7.7	56
107	Partially hydroxylated ultrathin iridium nanosheets as efficient electrocatalysts for water splitting. <i>National Science Review</i> , 2020, 7, 1340-1348.	4.6	56
108	Understanding contact electrification at liquid-solid interfaces from surface electronic structure. <i>Nature Communications</i> , 2021, 12, 1752.	5.8	56

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109	Trifunctional Fishbone-like PtCo/Ir Enables High-Performance Zinc-Air Batteries to Drive the Water-Splitting Catalysis. <i>Chemistry of Materials</i> , 2019, 31, 8136-8144.	3.2	55
110	On-Demand, Ultrasensitive Hydrogenation System Enabled by Precisely Modulated Pd-Cd Nanocubes. <i>Journal of the American Chemical Society</i> , 2020, 142, 962-972.	6.6	53
111	High-performance diluted nickel nanoclusters decorating ruthenium nanowires for pH-universal overall water splitting. <i>Energy and Environmental Science</i> , 2021, 14, 3194-3202.	15.6	53
112	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.	11.1	52
113	4f fine-structure levels as the dominant error in the electronic structures of binary lanthanide oxides. <i>Journal of Computational Chemistry</i> , 2016, 37, 825-835.	1.5	49
114	Native Point Defects in CaS: Focus on Intrinsic Defects and Rare Earth Ion Dopant Levels for Up-converted Persistent Luminescence. <i>Inorganic Chemistry</i> , 2015, 54, 11423-11440.	1.9	47
115	Multicolor Tuning and Temperature-Triggered Anomalous Eu ³⁺ -Related Photoemission Enhancement via Interplay of Accelerated Energy Transfer and Release of Defect-Trapped Electrons in the Tb ³⁺ ,Eu ³⁺ -Doped Strontium-Aluminum Chlorites. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 36157-36170.	4.0	47
116	Energy harvesting and conversion mechanisms for intrinsic upconverted mechano-persistent luminescence in CaZnOS. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 25946-25974.	1.3	46
117	Enhanced electron transfer and light absorption on imino polymer capped PdAg nanowire networks for efficient room-temperature dehydrogenation of formic acid. <i>Journal of Materials Chemistry A</i> , 2018, 6, 1979-1984.	5.2	43
118	Nanophotonic energy storage in upconversion nanoparticles. <i>Nano Energy</i> , 2019, 56, 473-481.	8.2	43
119	All-inorganic perovskite nanocrystals: next-generation scintillation materials for high-resolution X-ray imaging. <i>Nanoscale Advances</i> , 2022, 4, 680-696.	2.2	43
120	Fundamental View of Electronic Structures of \hat{f}^2 -NaYF ₄ , \hat{f}^2 -NaGdF ₄ , and \hat{f}^2 -NaLuF ₄ . <i>Journal of Physical Chemistry C</i> , 2016, 120, 18858-18870.	1.5	42
121	Boosted Oxygen Evolution Reactivity via Atomic Iron Doping in Cobalt Carbonate Hydroxide Hydrate. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 40220-40228.	4.0	42
122	Constructing three-dimensional porous Ni ₃ S ₂ nano-interfaces for hydrogen evolution electrocatalysis under alkaline conditions. <i>Dalton Transactions</i> , 2017, 46, 10700-10706.	1.6	41
123	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.	4.5	41
124	The screened pseudo-charge repulsive potential in perturbed orbitals for band calculations by DFT+U. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 8008-8025.	1.3	40
125	Room-temperature methane gas sensing properties based on in situ reduced graphene oxide incorporated with tin dioxide. <i>Journal of Materials Chemistry A</i> , 2017, 5, 11131-11142.	5.2	40
126	An efficient ultrathin PtFeNi Nanowire/Ionic liquid conjugate electrocatalyst. <i>Applied Catalysis B: Environmental</i> , 2019, 256, 117828.	10.8	40

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127	Analysis of Ultrahigh Apparent Mobility in Oxide Field-Effect Transistors. <i>Advanced Science</i> , 2019, 6, 1801189.	5.6	40
128	Loading Copper Atoms on Graphdiyne for Highly Efficient Hydrogen Production. <i>ChemPhysChem</i> , 2020, 21, 2145-2149.	1.0	40
129	Revisiting an ancient inorganic aggregation-induced emission system: An enlightenment to clusteroluminescence. <i>Aggregate</i> , 2021, 2, e36.	5.2	40
130	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.	10.8	40
131	One-Step Controllable Synthesis of Catalytic Ni ₄ Mo/MoO _x /Cu Nanointerfaces for Highly Efficient Water Reduction. <i>Advanced Energy Materials</i> , 2019, 9, 1901454.	10.2	39
132	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.	4.6	39
133	Atomic Arrangement in Metal-Doped NiS ₂ Boosts the Hydrogen Evolution Reaction in Alkaline Media. <i>Angewandte Chemie</i> , 2019, 131, 18849-18855.	1.6	38
134	Anti-poisoned oxygen reduction by the interface modulated Pd@NiO core@shell. <i>Nano Energy</i> , 2019, 58, 234-243.	8.2	38
135	Strain modulation of phase transformation of noble metal nanomaterials. <i>Informa-Ån-Å-Materi-Åly</i> , 2020, 2, 715-734.	8.5	38
136	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.	6.4	38
137	Highly Active, Selective, and Stable Direct H ₂ O ₂ Generation by Monodispersive Pd-Ag Nanoalloy. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 21291-21296.	4.0	37
138	Universal Strategy for Ultrathin Pt-M (M = Fe, Co, Ni) Nanowires for Efficient Catalytic Hydrogen Generation. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 22257-22263.	4.0	36
139	Nature of defects and gap states in GeTe model phase change materials. <i>Physical Review B</i> , 2012, 85, .	1.1	35
140	Energy Relay Center for doped mechanoluminescence materials: a case study on Cu-doped and Mn-doped CaZnOS. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 1190-1208.	1.3	35
141	Electronic Tunability and Mobility Anisotropy of Quasi-2D Perovskite Single Crystals with Varied Spacer Cations. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 7610-7616.	2.1	35
142	Graphdiyne Ultrathin Nanosheets for Efficient Water Splitting. <i>Advanced Functional Materials</i> , 2021, 31, 2010112.	7.8	35
143	Fluorographdiyne: A Metal-Free Catalyst for Applications in Water Reduction and Oxidation. <i>Angewandte Chemie</i> , 2019, 131, 14035-14041.	1.6	34
144	Metallated Graphynes as a New Class of Photofunctional 2D Organometallic Nanosheets. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11326-11334.	7.2	34

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