Bo-Long Huang

List of Publications by Year
in descending order

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270	19,667	10389	14208
papers	citations	72 h-index	128 g-index

279	279	279	15875
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	All-inorganic perovskite nanocrystal scintillators. Nature, 2018, 561, 88-93.	27.8	1,274
2	A Eu ³⁺ -Eu ²⁺ ion redox shuttle imparts operational durability to Pb-I perovskite solar cells. Science, 2019, 363, 265-270.	12.6	793
3	Anchoring zero valence single atoms of nickel and iron on graphdiyne for hydrogen evolution. Nature Communications, 2018, 9, 1460.	12.8	781
4	Highly Efficient and Selective Generation of Ammonia and Hydrogen on a Graphdiyne-Based Catalyst. Journal of the American Chemical Society, 2019, 141, 10677-10683.	13.7	474
5	General synthesis of two-dimensional van der Waals heterostructure arrays. Nature, 2020, 579, 368-374.	27.8	393
6	High-resolution X-ray luminescence extension imaging. Nature, 2021, 590, 410-415.	27.8	378
7	Iridium Single Atoms Coupling with Oxygen Vacancies Boosts Oxygen Evolution Reaction in Acid Media. Journal of the American Chemical Society, 2020, 142, 18378-18386.	13.7	334
8	Amorphization activated ruthenium-tellurium nanorods for efficient waterÂsplitting. Nature Communications, 2019, 10, 5692.	12.8	312
9	Fast site-to-site electron transfer of high-entropy alloy nanocatalyst driving redox electrocatalysis. Nature Communications, 2020, 11, 5437.	12.8	288
10	Overall water splitting by graphdiyne-exfoliated and -sandwiched layered double-hydroxide nanosheet arrays. Nature Communications, 2018, 9, 5309.	12.8	287
11	Engineering stepped edge surface structures of MoS₂sheet stacks to accelerate the hydrogen evolution reaction. Energy and Environmental Science, 2017, 10, 593-603.	30.8	284
12	Strongly Coupled Nickelâ€“Cobalt Nitrides/Carbon Hybrid Nanocages with Ptâ€Like Activity for Hydrogen Evolution Catalysis. Advanced Materials, 2019, 31, e1805541.	21.0	276
13	Channelâ€Rich RuCu Nanosheets for pHâ€Universal Overall Water Splitting Electrocatalysis. Angewandte Chemie - International Edition, 2019, 58, 13983-13988.	13.8	274
14	Confining Excitation Energy in Er³⁺â€Sensitized Upconversion Nanocrystals through Tm³⁺â€Mediated Transient Energy Trapping. Angewandte Chemie - International Edition, 2017, 56, 7605-7609.	13.8	259
15	Exploiting Ruâ€Induced Lattice Strain in CoRu Nanoalloys for Robust Bifunctional Hydrogen Production. Angewandte Chemie - International Edition, 2021, 60, 3290-3298.	13.8	254
16	Oxygenâ€Incorporated NiMoP Nanotube Arrays as Efficient Bifunctional Electrocatalysts For Ureaâ€Assisted Energyâ€Saving Hydrogen Production in Alkaline Electrolyte. Advanced Functional Materials, 2021, 31, 2104951.	14.9	247
17	Ultrathin PtNiM (M = Rh, Os, and Ir) Nanowires as Efficient Fuel Oxidation Electrocatalytic Materials. Advanced Materials, 2019, 31, e1805833.	21.0	223
18	Rare-earth-containing perovskite nanomaterials: design, synthesis, properties and applications. Chemical Society Reviews, 2020, 49, 1109-1143.	38.1	211

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19	Bonding origin of optical contrast in phase-change memory materials. Physical Review B, 2010, 81, .	3.2	209
20	Atomically targeting NiFe LDH to create multivacancies for OER catalysis with a small organic anchor. Nano Energy, 2021, 81, 105606.	16.0	204
21	Exploiting Ruâ€Induced Lattice Strain in CoRu Nanoalloys for Robust Bifunctional Hydrogen Production. Angewandte Chemie, 2021, 133, 3327-3335.	2.0	189
22	Multimodal Luminescent Yb³⁺/Er³⁺/Bi³⁺â€Doped Perovskite Single Crystals for Xâ€ray Detection and Antiâ€Counterfeiting. Advanced Materials, 2020, 32, e2004506.	21.0	187
23	Impacts of alkaline on the defects property and crystallization kinetics in perovskite solar cells. Nature Communications, 2019, 10, 1112.	12.8	185
24	Atomic Arrangement in Metalâ€Doped NiS₂ Boosts the Hydrogen Evolution Reaction in Alkaline Media. Angewandte Chemie - International Edition, 2019, 58, 18676-18682.	13.8	174
25	Subnanometer high-entropy alloy nanowires enable remarkable hydrogen oxidation catalysis. Nature Communications, 2021, 12, 6261.	12.8	169
26	A General Method for Transition Metal Single Atoms Anchored on Honeycombâ€Like Nitrogenâ€Doped Carbon Nanosheets. Advanced Materials, 2020, 32, e1906905.	21.0	163
27	Graphdiyne Interface Engineering: Highly Active and Selective Ammonia Synthesis. Angewandte Chemie - International Edition, 2020, 59, 13021-13027.	13.8	154
28	Intermetallic hcp-PtBi/fcc-Pt Core/Shell Nanoplates Enable Efficient Bifunctional Oxygen Reduction and Methanol Oxidation Electrocatalysis. ACS Catalysis, 2018, 8, 5581-5590.	11.2	153
29	Self-Elimination of Intrinsic Defects Improves the Low-Temperature Performance of Perovskite Photovoltaics. Joule, 2020, 4, 1961-1976.	24.0	152
30	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
31	Co₃O₄/Fe_{0.33}Co_{0.66}P Interface Nanowire for Enhancing Water Oxidation Catalysis at High Current Density. Advanced Materials, 2018, 30, e1803551.	21.0	150
32	Ultrathin Nanosheet of Graphdiyne-Supported Palladium Atom Catalyst for Efficient Hydrogen Production. IScience, 2019, 11, 31-41.	4.1	149
33	Toward Bi³⁺ Red Luminescence with No Visible Reabsorption through Manageable Energy Interaction and Crystal Defect Modulation in Single Bi³⁺-Doped ZnWO₄ Crystal. Chemistry of Materials, 2017, 29, 8412-8424.	6.7	148
34	Interfacial Defect Engineering for Improved Portable Zincâ€“Air Batteries with a Broad Working Temperature. Angewandte Chemie - International Edition, 2019, 58, 9459-9463.	13.8	139
35	Multimetal Borides Nanochains as Efficient Electrocatalysts for Overall Water Splitting. Small, 2019, 15, e1804212.	10.0	135
36	Crystalâ€Phaseâ€Engineered PdCu Electrocatalyst for Enhanced Ammonia Synthesis. Angewandte Chemie - International Edition, 2020, 59, 2649-2653.	13.8	131

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37	Atomic Sulfur Filling Oxygen Vacancies Optimizes H Absorption and Boosts the Hydrogen Evolution Reaction in Alkaline Media. Angewandte Chemie - International Edition, 2021, 60, 14117-14123.	13.8	129
38	Piezophotonic effect based on mechanoluminescent materials for advanced flexible optoelectronic applications. Nano Energy, 2019, 55, 389-400.	16.0	126
39	Fabrication of layered double hydroxide microcapsules mediated by cerium doping in metalâ€“organic frameworks for boosting water splitting. Energy and Environmental Science, 2020, 13, 2949-2956.	30.8	126
40	Fluorographdiyne: A Metalâ€Free Catalyst for Applications in Water Reduction and Oxidation. Angewandte Chemie - International Edition, 2019, 58, 13897-13903.	13.8	123
41	Mechanically Excited Multicolor Luminescence in Lanthanide Ions. Advanced Materials, 2019, 31, e1807062.	21.0	120
42	Transition metal-doped nickel phosphide nanoparticles as electro- and photocatalysts for hydrogen generation reactions. Applied Catalysis B: Environmental, 2019, 242, 186-193.	20.2	120
43	Efficient Optimization of Electron/Oxygen Pathway by Constructing Ceria/Hydroxide Interface for Highly Active Oxygen Evolution Reaction. Advanced Functional Materials, 2020, 30, 1908367.	14.9	120
44	NiCo₂O₄â€Based Nanosheets with Uniform 4 nm Mesopores for Excellent Znâ€“Air Battery Performance. Advanced Materials, 2020, 32, e2001651.	21.0	120
45	Uncovering the Promotion of CeO₂/CoS_{1.97} Heterostructure with Specific Spatial Architectures on Oxygen Evolution Reaction. Advanced Materials, 2021, 33, e2102593.	21.0	118
46	Wrinkled Rh₂P Nanosheets as Superior pHâ€Universal Electrocatalysts for Hydrogen Evolution Catalysis. Advanced Energy Materials, 2018, 8, 1801891.	19.5	116
47	A ZnS/CaZnOS Heterojunction for Efficient Mechanicalâ€toâ€Optical Energy Conversion by Conduction Band Offset. Advanced Materials, 2020, 32, e1907747.	21.0	114
48	Au Clusters on Pd Nanosheets Selectively Switch the Pathway of Ethanol Electrooxidation: Amorphous/Crystalline Interface Matters. Advanced Energy Materials, 2021, 11, 2100187.	19.5	113
49	A General Strategy to Glassy Mâ€Te (M = Ru, Rh, Ir) Porous Nanorods for Efficient Electrochemical N₂ Fixation. Advanced Materials, 2020, 32, e1907112.	21.0	111
50	Graphdiyne-based metal atomic catalysts for synthesizing ammonia. National Science Review, 2021, 8, nwaa213.	9.5	110
51	Locally collective hydrogen bonding isolates lead octahedra for white emission improvement. Nature Communications, 2019, 10, 5190.	12.8	109
52	A General Synthetic Method for High-Entropy Alloy Subnanometer Ribbons. Journal of the American Chemical Society, 2022, 144, 10582-10590.	13.7	108
53	A Generalized Surface Chalcogenation Strategy for Boosting the Electrochemical N₂ Fixation of Metal Nanocrystals. Advanced Materials, 2020, 32, e2001267.	21.0	105
54	Oxygen Vacancies on Layered Niobic Acid That Weaken the Catalytic Conversion of Polysulfides in Lithiumâ€“Sulfur Batteries. Angewandte Chemie - International Edition, 2019, 58, 11491-11496.	13.8	104

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55	Integrating temporal and spatial control of electronic transitions for bright multiphoton upconversion. Nature Communications, 2019, 10, 1811.	12.8	104
56	Coupled s-p-d Exchange in Facet-Controlled Pd3Pb Tripods Enhances Oxygen Reduction Catalysis. CheM, 2018, 4, 359-371.	11.7	100
57	Accelerating Atomic Catalyst Discovery by Theoretical Calculationsâ€Machine Learning Strategy. Advanced Energy Materials, 2020, 10, 1903949.	19.5	99
58	Multiâ€Site Electrocatalysts Boost pHâ€Universal Nitrogen Reduction by Highâ€Entropy Alloys. Advanced Functional Materials, 2021, 31, 2006939.	14.9	99
59	pH-Universal Water Splitting Catalyst: Ru-Ni Nanosheet Assemblies. IScience, 2019, 11, 492-504.	4.1	97
60	Platinum Porous Nanosheets with High Surface Distortion and Pt Utilization for Enhanced Oxygen Reduction Catalysis. Advanced Functional Materials, 2019, 29, 1904429.	14.9	96
61	High energy X-ray radiation sensitive scintillating materials for medical imaging, cancer diagnosis and therapy. Nano Energy, 2021, 79, 105437.	16.0	95
62	Crystalâ€Phaseâ€Engineered PdCu Electrocatalyst for Enhanced Ammonia Synthesis. Angewandte Chemie, 2020, 132, 2671-2675.	2.0	93
63	Ultrathin RuRh Alloy Nanosheets Enable High-Performance Lithium-CO2 Battery. Matter, 2020, 2, 1494-1508.	10.0	91
64	2D graphdiyne loading ruthenium atoms for high efficiency water splitting. Nano Energy, 2020, 72, 104667.	16.0	91
65	The Spacer Cations Interplay for Efficient and Stable Layered 2D Perovskite Solar Cells. Advanced Energy Materials, 2020, 10, 1901566.	19.5	89
66	Study of CeO₂ and Its Native Defects by Density Functional Theory with Repulsive Potential. Journal of Physical Chemistry C, 2014, 118, 24248-24256.	3.1	86
67	Selective Surface Reconstruction of a Defective Iridiumâ€Based Catalyst for Highâ€Efficiency Water Splitting. Advanced Functional Materials, 2020, 30, 2004375.	14.9	85
68	Atomically Dispersed Cu Catalyst for Efficient Chemoselective Hydrogenation Reaction. Nano Letters, 2021, 21, 10284-10291.	9.1	85
69	Atomic PdAu Interlayer Sandwiched into Pd/Pt Core/Shell Nanowires Achieves Superstable Oxygen Reduction Catalysis. ACS Nano, 2020, 14, 11570-11578.	14.6	84
70	Selfâ€Recoverable Mechanically Induced Instant Luminescence from Cr³⁺â€Doped LiGa₅O₈. Advanced Functional Materials, 2021, 31, 2010685.	14.9	84
71	Barrier-free Interface Electron Transfer on PtFe-Fe2C Janus-like Nanoparticles Boosts Oxygen Catalysis. CheM, 2018, 4, 1153-1166.	11.7	82
72	WO_xâ€Surface Decorated PtNi@Pt Dendritic Nanowires as Efficient pHâ€Universal Hydrogen Evolution Electrocatalysts. Advanced Energy Materials, 2021, 11, 2003192.	19.5	82

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73	Tunable CO/H ₂ ratios of electrochemical reduction of CO ₂ through the Zn-Ln dual atomic catalysts. Science Advances, 2021, 7, eabl4915.	10.3	82
74	Confined Growth of Silverâ€“Copper Janus Nanostructures with {100} Facets for Highly Selective Tandem Electrocatalytic Carbon Dioxide Reduction. Advanced Materials, 2022, 34, e2110607.	21.0	82
75	The facile oil-phase synthesis of a multi-site synergistic high-entropy alloy to promote the alkaline hydrogen evolution reaction. Journal of Materials Chemistry A, 2021, 9, 889-893.	10.3	80
76	Defect Engineering of Palladiumâ€“Tin Nanowires Enables Efficient Electrocatalysts for Fuel Cell Reactions. Nano Letters, 2019, 19, 6894-6903.	9.1	79
77	Advanced Ultrathin RuPdM (M = Ni, Co, Fe) Nanosheets Electrocatalyst Boosts Hydrogen Evolution. ACS Central Science, 2019, 5, 1991-1997.	11.3	78
78	Atomically deviated Pd-Te nanoplates boost methanol-tolerant fuel cells. Science Advances, 2020, 6, eaba9731.	10.3	78
79	Tailored transition metal-doped nickel phosphide nanoparticles for the electrochemical oxygen evolution reaction (OER). Chemical Communications, 2018, 54, 8630-8633.	4.1	73
80	Alloyed Palladiumâ€“Silver Nanowires Enabling Ultrastable Carbon Dioxide Reduction to Formate. Advanced Materials, 2021, 33, e2005821.	21.0	73
81	Compensating Electronic Effect Enables Fast Siteâ€toâ€Site Electron Transfer over Ultrathin RuMn Nanosheet Branches toward Highly Electroactive and Stable Water Splitting. Advanced Materials, 2021, 33, e2105308.	21.0	73
82	Interface Modulation of MoS₂/Metal Oxide Heterostructures for Efficient Hydrogen Evolution Electrocatalysis. Small, 2020, 16, e2002212.	10.0	68
83	Grain-Boundary-Engineered La₂CuO₄ Perovskite Nanobamboos for Efficient CO₂ Reduction Reaction. Nano Letters, 2021, 21, 980-987.	9.1	68
84	Surface oxygen-mediated ultrathin PtRuM (Ni, Fe, and Co) nanowires boosting methanol oxidation reaction. Journal of Materials Chemistry A, 2020, 8, 2323-2330.	10.3	67
85	Theory of piezotronics and piezo-phototronics. MRS Bulletin, 2018, 43, 928-935.	3.5	66
86	Exploring Bi₂Te₃ Nanoplates as Versatile Catalysts for Electrochemical Reduction of Small Molecules. Advanced Materials, 2020, 32, e1906477.	21.0	65
87	Lanthanide electronic perturbation in Ptâ€“Ln (La, Ce, Pr and Nd) alloys for enhanced methanol oxidation reaction activity. Energy and Environmental Science, 2021, 14, 5911-5918.	30.8	65
88	Multiple structural defects in ultrathin NiFe-LDH nanosheets synergistically and remarkably boost water oxidation reaction. Nano Research, 2022, 15, 310-316.	10.4	65
89	Mapping of atomic catalyst on graphdiyne. Nano Energy, 2019, 62, 754-763.	16.0	64
90	A New Hexagonal Cobalt Nanosheet Catalyst for Selective CO₂ Conversion to Ethanal. Journal of the American Chemical Society, 2021, 143, 15335-15343.	13.7	64

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91	Manipulating Crystallization Kinetics in Highâ€Performance Bladeâ€Coated Perovskite Solar Cells via Cosolventâ€Assisted Phase Transition. Advanced Materials, 2022, 34, e2200276.	21.0	64
92	A top-down strategy for amorphization of hydroxyl compounds for electrocatalytic oxygen evolution. Nature Communications, 2022, 13, 1187.	12.8	63
93	Non-noble metal-based bifunctional electrocatalysts for hydrogen production. Rare Metals, 2022, 41, 2169-2183.	7.1	62
94	When rare earth meets carbon nanodots: mechanisms, applications and outlook. Chemical Society Reviews, 2020, 49, 9220-9248.	38.1	61
95	A Review on Ceo₂â€Based Electrocatalyst and Photocatalyst in Energy Conversion. Advanced Energy and Sustainability Research, 2021, 2, 2000063.	5.8	60
96	Rationally engineered active sites for efficient and durable hydrogen generation. Nature Communications, 2019, 10, 2281.	12.8	59
97	Kineticâ€Oriented Construction of MoS₂ Synergistic Interface to Boost pHâ€Universal Hydrogen Evolution. Advanced Functional Materials, 2020, 30, 1908520.	14.9	59
98	A highly efficient atomically thin curved PdIr bimetallene electrocatalyst. National Science Review, 2021, 8, nwab019.	9.5	59
99	Phaseâ€Dependent Electrocatalytic CO₂ Reduction on Pd₃Bi Nanocrystals. Angewandte Chemie - International Edition, 2021, 60, 21741-21745.	13.8	59
100	Channelâ€Rich RuCu Nanosheets for pHâ€Universal Overall Water Splitting Electrocatalysis. Angewandte Chemie, 2019, 131, 14121-14126.	2.0	58
101	Highâ€Index Faceted RuCo Nanoscrews for Water Electrosplitting. Advanced Energy Materials, 2020, 10, 2002860.	19.5	58
102	A chemical etching strategy to improve and stabilize RuO2-based nanoassemblies for acidic oxygen evolution. Nano Energy, 2021, 84, 105909.	16.0	58
103	Selfâ€Validated Machine Learning Study of Graphdiyneâ€Based Dual Atomic Catalyst. Advanced Energy Materials, 2021, 11, 2003796.	19.5	57
104	TM LDH Meets Birnessite: A 2Dâ€2D Hybrid Catalyst with Longâ€Term Stability for Water Oxidation at Industrial Operating Conditions. Angewandte Chemie - International Edition, 2021, 60, 9699-9705.	13.8	57
105	Confining Excitation Energy in Er³⁺â€Sensitized Upconversion Nanocrystals through Tm³⁺â€Mediated Transient Energy Trapping. Angewandte Chemie, 2017, 129, 7713-7717.	2.0	56
106	Emerging role of machine learning in light-matter interaction. Light: Science and Applications, 2019, 8, 84.	16.6	56
107	Partially hydroxylated ultrathin iridium nanosheets as efficient electrocatalysts for water splitting. National Science Review, 2020, 7, 1340-1348.	9.5	56
108	Understanding contact electrification at liquidâ€“solid interfaces from surface electronic structure. Nature Communications, 2021, 12, 1752.	12.8	56

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109	Trifunctional Fishbone-like PtCo/Ir Enables High-Performance Zincâ€“Air Batteries to Drive the Water-Splitting Catalysis. Chemistry of Materials, 2019, 31, 8136-8144.	6.7	55
110	On-Demand, Ultraselective Hydrogenation System Enabled by Precisely Modulated Pdâ€“Cd Nanocubes. Journal of the American Chemical Society, 2020, 142, 962-972.	13.7	53
111	High-performance diluted nickel nanoclusters decorating ruthenium nanowires for pH-universal overall water splitting. Energy and Environmental Science, 2021, 14, 3194-3202.	30.8	53
112	Tailoring Oxygen Reduction Reaction Pathway on Spinel Oxides via Surficial Geometricalâ€Site Occupation Modification Driven by the Oxygen Evolution Reaction. Advanced Materials, 2022, 34, e2202874.	21.0	52
113	4f fine-structure levels as the dominant error in the electronic structures of binary lanthanide oxides. Journal of Computational Chemistry, 2016, 37, 825-835.	3.3	49
114	Native Point Defects in CaS: Focus on Intrinsic Defects and Rare Earth Ion Dopant Levels for Up-converted Persistent Luminescence. Inorganic Chemistry, 2015, 54, 11423-11440.	4.0	47
115	Multicolor Tuning and Temperature-Triggered Anomalous Eu³⁺-Related Photoemission Enhancement via Interplay of Accelerated Energy Transfer and Release of Defect-Trapped Electrons in the Tb³⁺,Eu³⁺-Doped Strontiumâ€“Aluminum Chlorites. ACS Applied Materials & Interfaces, 2018, 10, 36157-36170.	8.0	47
116	Energy harvesting and conversion mechanisms for intrinsic upconverted mechano-persistent luminescence in CaZnOS. Physical Chemistry Chemical Physics, 2016, 18, 25946-25974.	2.8	46
117	Enhanced electron transfer and light absorption on imino polymer capped PdAg nanowire networks for efficient room-temperature dehydrogenation of formic acid. Journal of Materials Chemistry A, 2018, 6, 1979-1984.	10.3	43
118	Nanophotonic energy storage in upconversion nanoparticles. Nano Energy, 2019, 56, 473-481.	16.0	43
119	All-inorganic perovskite nanocrystals: next-generation scintillation materials for high-resolution X-ray imaging. Nanoscale Advances, 2022, 4, 680-696.	4.6	43
120	Fundamental View of Electronic Structures of Î²-NaYF₄, Î²-NaGdF₄, and Î²-NaLuF₄. Journal of Physical Chemistry C, 2016, 120, 18858-18870.	3.1	42
121	Boosted Oxygen Evolution Reactivity via Atomic Iron Doping in Cobalt Carbonate Hydroxide Hydrate. ACS Applied Materials & Interfaces, 2020, 12, 40220-40228.	8.0	42
122	Constructing three-dimensional porous Ni/Ni₃S₂ nano-interfaces for hydrogen evolution electrocatalysis under alkaline conditions. Dalton Transactions, 2017, 46, 10700-10706.	3.3	41
123	Fast Li-ion Conductor of Li₃HoBr₆ for Stable All-Solid-State Lithiumâ€“Sulfur Battery. Nano Letters, 2021, 21, 9325-9331.	9.1	41
124	The screened pseudo-charge repulsive potential in perturbed orbitals for band calculations by DFT+U. Physical Chemistry Chemical Physics, 2017, 19, 8008-8025.	2.8	40
125	Room-temperature methane gas sensing properties based on in situ reduced graphene oxide incorporated with tin dioxide. Journal of Materials Chemistry A, 2017, 5, 11131-11142.	10.3	40
126	An efficient ultrathin PtFeNi Nanowire/Ionic liquid conjugate electrocatalyst. Applied Catalysis B: Environmental, 2019, 256, 117828.	20.2	40

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127	Analysis of Ultrahigh Apparent Mobility in Oxide Fieldâ€Effect Transistors. Advanced Science, 2019, 6, 1801189.	11.2	40
128	Loading Copper Atoms on Graphdiyne for Highly Efficient Hydrogen Production. ChemPhysChem, 2020, 21, 2145-2149.	2.1	40
129	Revisiting an ancient inorganic aggregationâ€induced emission system: An enlightenment to clusteroluminescence. Aggregate, 2021, 2, e36.	9.9	40
130	The self-complementary effect through strong orbital coupling in ultrathin high-entropy alloy nanowires boosting pH-universal multifunctional electrocatalysis. Applied Catalysis B: Environmental, 2022, 312, 121431.	20.2	40
131	Oneâ€Step Controllable Synthesis of Catalytic Ni₄Mo/MoO_x/Cu Nanointerfaces for Highly Efficient Water Reduction. Advanced Energy Materials, 2019, 9, 1901454.	19.5	39
132	Exposed facet-controlled N2 electroreduction on distinct Pt3Fe nanostructures of nanocubes, nanorods and nanowires. National Science Review, 2021, 8, nwaa088.	9.5	39
133	Atomic Arrangement in Metalâ€Doped NiS₂ Boosts the Hydrogen Evolution Reaction in Alkaline Media. Angewandte Chemie, 2019, 131, 18849-18855.	2.0	38
134	Anti-poisoned oxygen reduction by the interface modulated Pd@NiO core@shell. Nano Energy, 2019, 58, 234-243.	16.0	38
135	Strain modulation of phase transformation of noble metal nanomaterials. InformaÄnÃ-MateriÃ¡ly, 2020, 2, 715-734.	17.3	38
136	Engineering the synergistic effect of carbon dotsâ€stabilized atomic and subnanometric ruthenium as highly efficient electrocatalysts for robust hydrogen evolution. SmartMat, 2022, 3, 249-259.	10.7	38
137	Highly Active, Selective, and Stable Direct H₂O₂ Generation by Monodispersive Pdâ€“Ag Nanoalloy. ACS Applied Materials & Interfaces, 2018, 10, 21291-21296.	8.0	37
138	Universal Strategy for Ultrathin Ptâ€“M (M = Fe, Co, Ni) Nanowires for Efficient Catalytic Hydrogen Generation. ACS Applied Materials & Interfaces, 2018, 10, 22257-22263.	8.0	36
139	Nature of defects and gap states in GeTe model phase change materials. Physical Review B, 2012, 85, .	3.2	35
140	â€œEnergy Relay Centerâ€•for doped mechanoluminescence materials: a case study on Cu-doped and Mn-doped CaZnOS. Physical Chemistry Chemical Physics, 2017, 19, 1190-1208.	2.8	35
141	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
142	Graphdiyne Ultrathin Nanosheets for Efficient Water Splitting. Advanced Functional Materials, 2021, 31, 2010112.	14.9	35
143	Fluorographdiyne: A Metalâ€Free Catalyst for Applications in Water Reduction and Oxidation. Angewandte Chemie, 2019, 131, 14035-14041.	2.0	34
144	Metallated Graphynes as a New Class of Photofunctional 2D Organometallic Nanosheets. Angewandte Chemie - International Edition, 2021, 60, 11326-11334.	13.8	34

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145	Rh-doped PdAg nanoparticles as efficient methanol tolerance electrocatalytic materials for oxygen reduction. Science Bulletin, 2019, 64, 54-62.	9.0	33
146	Stepping Out of Transition Metals: Activating the Dual Atomic Catalyst through Main Group Elements. Advanced Energy Materials, 2021, 11, 2101404.	19.5	33
147	Mesoporosityâ€Enabled Selectivity of Mesoporous Palladiumâ€Based Nanocrystals Catalysts in Semihydrogenation of Alkynes. Angewandte Chemie - International Edition, 2022, 61, e202114539.	13.8	33
148	Rareâ€Earthâ€Based Perovskite Cs₂AgScCl₆:Bi for Strong Full Visible Spectrum Emission. Advanced Functional Materials, 2022, 32, .	14.9	32
149	Multimodal channel cancer chemotherapy by 2D functional gadolinium metalâ€“organic framework. National Science Review, 2021, 8, nwaa221.	9.5	31
150	Boosting the Electrocatalytic Oxygen Evolution of Perovskite LaCo_{1â^'}_xFe_xO₃ by the Construction of Yolkâ€Shell Nanostructures and Electronic Modulation. Small, 2022, 18, .	10.0	31
151	Phenylene-bridged perylenediimide-porphyrin acceptors for non-fullerene organic solar cells. Sustainable Energy and Fuels, 2018, 2, 2616-2624.	4.9	30
152	Surface Molecular Functionalization of Unusual Phase Metal Nanomaterials for Highly Efficient Electrochemical Carbon Dioxide Reduction under Industryâ€Relevant Current Density. Small, 2022, 18, e2106766.	10.0	30
153	Predictions of mechanical and thermodynamic properties of Mg₁₇Al₁₂and Mg₂Sn from first-principles calculations. Philosophical Magazine, 2015, 95, 1626-1645.	1.6	29
154	Unraveling energy conversion modeling in the intrinsic persistent upconverted luminescence of solids: a study of native point defects in antiferromagnetic Er₂O₃. Physical Chemistry Chemical Physics, 2016, 18, 13564-13582.	2.8	29
155	Intrinsic energy conversions for photon-generation in piezo-phototronic materials: A case study on alkaline niobates. Nano Energy, 2018, 47, 150-171.	16.0	29
156	Twoâ€Dimensional Metalâ€“Organic Frameworksâ€Based Electrocatalysts for Oxygen Evolution and Oxygen Reduction Reactions. Advanced Energy and Sustainability Research, 2021, 2, 2000067.	5.8	29
157	Intrinsic deep hole trap levels in Cu2O with self-consistent repulsive Coulomb energy. Solid State Communications, 2016, 230, 49-53.	1.9	28
158	Dilute Aqueousâ€Aprotic Hybrid Electrolyte Enabling a Wide Electrochemical Window through Solvation Structure Engineering. Advanced Materials, 2021, 33, e2102390.	21.0	28
159	Graphdiyneâ€Induced Iron Vacancy for Efficient Nitrogen Conversion. Advanced Science, 2022, 9, e2102721.	11.2	28
160	Expanding the toolbox for lanthanide-doped upconversion nanocrystals. Journal Physics D: Applied Physics, 2019, 52, 383002.	2.8	27
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