

Bo-Long Huang

List of Publications by Year in Descending Order

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Version: 2024-04-23

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

264
papers

10,079
citations

52
h-index

92
g-index

279
ext. papers

14,389
ext. citations

13.4
avg, IF

7.05
L-index

#	Paper	IF	Citations
264	Surface Molecular Functionalization of Unusual Phase Metal Nanomaterials for Highly Efficient Electrochemical Carbon Dioxide Reduction under Industry-Relevant Current Density.. <i>Small</i> , 2022 , e2106766	11.7	7
263	All-inorganic perovskite nanocrystals: next-generation scintillation materials for high-resolution X-ray imaging. <i>Nanoscale Advances</i> , 2022 , 4, 680-696	5.1	8
262	Rare-earth Nanomaterials for PEC Energy Conversion 2022 , 399-410		
261	Rare-earth Nanomaterials for PC Energy Conversion 2022 , 309-323		
260	Rare-earth Nanomaterials for EC Energy Conversion 2022 , 171-189		
259	Rare-Earth Nanomaterials for PV Energy Conversion 2022 , 559-579		
258	Hexagonal PtBi Intermetallic Inlaid with Sub-Monolayer Pb Oxyhydroxide Boosts Methanol Oxidation.. <i>Small</i> , 2022 , e2107803	11	5
257	A top-down strategy for amorphization of hydroxyl compounds for electrocatalytic oxygen evolution.. <i>Nature Communications</i> , 2022 , 13, 1187	17.4	8
256	Manipulating Crystallization Kinetics in High-Performance Blade-Coated Perovskite Solar Cells via Cosolvent-Assisted Phase Transition.. <i>Advanced Materials</i> , 2022 , e2200276	24	11
255	Atomically precise bimetallic metal ensembles with tailorable synergistic effects. <i>Cell Reports Physical Science</i> , 2022 , 100850	6.1	1
254	Confined growth of silver-copper Janus nanostructures with {100} facets for highly selective tandem electrocatalytic carbon dioxide reduction.. <i>Advanced Materials</i> , 2022 , e2110607	24	10
253	Highly Loaded Independent Pt Atoms on Graphdiyne for pH-General Methanol Oxidation Reaction.. <i>Advanced Science</i> , 2022 , e2104991	13.6	2
252	Broadband multimodal emission in Sb-doped CaZnOS-layered semiconductors. <i>Science China Materials</i> , 2022 , 65, 1329-1336	7.1	3
251	Carboxylated carbon nanotubes with high electrocatalytic activity for oxygen evolution in acidic conditions. <i>Information Materials</i> , 2022 , 4,	23.1	2
250	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, 2270057	21.8	
249	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 , 121431	21.8	1
248	Tailoring Oxygen Reduction Reaction Pathway on Spinel Oxides via Surficial Geometrical-Site Occupation Modification Driven by Oxygen Evolution Reaction.. <i>Advanced Materials</i> , 2022 , e2202874	24	4

247	Flexible Modulations on Selectivity of Syngas Formation via CO ₂ Reduction on Atomic Catalysts. <i>Nano Energy</i> , 2022 , 107382	17.1	0
246	Neighboring effects of active sites for CO ₂ transition to C ₁ products on atomic catalysts. <i>Nano Energy</i> , 2022 , 99, 107398	17.1	
245	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	9.4	0
244	Mesoporosity-Enabled Selectivity of Mesoporous Palladium-Based Nanocrystals Catalysts in Semihydrogenation of Alkynes.. <i>Angewandte Chemie - International Edition</i> , 2021 , e202114539	16.4	9
243	Atomically Dispersed Cu Catalyst for Efficient Chemoselective Hydrogenation Reaction. <i>Nano Letters</i> , 2021 ,	11.5	34
242	Few-Layer WS-WSe Lateral Heterostructures: Influence of the Gas Precursor Selenium/Tungsten Ratio on the Number of Layers.. <i>ACS Nano</i> , 2021 ,	16.7	2
241	Graphdiyne-Induced Iron Vacancy for Efficient Nitrogen Conversion. <i>Advanced Science</i> , 2021 , e2102721	13.6	6
240	Tunable CO/H ratios of electrochemical reduction of CO through the Zn-Ln dual atomic catalysts. <i>Science Advances</i> , 2021 , 7, eabl4915	14.3	13
239	New Mode of Stress Sensing in Multicolor (Ca1-Sr)8Mg3Al2Si7O28:Eu2+ Solid-solution Compounds. <i>Nano Energy</i> , 2021 , 93, 106799	17.1	0
238	Unexpected high selectivity for acetate formation from CO reduction with copper based 2D hybrid catalysts at ultralow potentials.. <i>Chemical Science</i> , 2021 , 12, 15382-15388	9.4	3
237	Gram-Scale Synthesis of Nanosized Li HoBr Solid Electrolyte for All-Solid-State Li-Se Battery.. <i>Small Methods</i> , 2021 , 5, e2101002	12.8	4
236	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 , e2105308	24	17
235	Fast Li-ion Conductor of LiHoBr for Stable All-Solid-State Lithium-Sulfur Battery. <i>Nano Letters</i> , 2021 , 21, 9325-9331	11.5	9
234	Effective Repeatable Mechanoluminescence in Heterostructured Li Na NbO : Pr. <i>Small</i> , 2021 , 17, e2103441		5
233	Subnanometer high-entropy alloy nanowires enable remarkable hydrogen oxidation catalysis. <i>Nature Communications</i> , 2021 , 12, 6261	17.4	24
232	Understanding contact electrification at liquid-solid interfaces from surface electronic structure. <i>Nature Communications</i> , 2021 , 12, 1752	17.4	17
231	Self-Recoverable Mechanically Induced Instant Luminescence from Cr ³⁺ -Doped LiGa ₅ O ₈ . <i>Advanced Functional Materials</i> , 2021 , 31, 2010685	15.6	24
230	Electronic View of Triboelectric Nanogenerator for Energy Harvesting: Mechanisms and Applications. <i>Advanced Energy and Sustainability Research</i> , 2021 , 2, 2000087	1.6	1

229	Discovering and Dissecting Mechanically Excited Luminescence of Mn ²⁺ Activators via Matrix Microstructure Evolution. <i>Advanced Functional Materials</i> , 2021 , 31, 2100221	15.6	6
228	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	3.6	2
227	Metallated Graphynes as a New Class of Photofunctional 2D Organometallic Nanosheets. <i>Angewandte Chemie</i> , 2021 , 133, 11427-11435	3.6	2
226	Direct Observation of Heterogeneous Surface Reactivity and Reconstruction on Terminations of Grain Boundaries of Platinum 2021 , 3, 622-629		3
225	Au Clusters on Pd Nanosheets Selectively Switch the Pathway of Ethanol Electrooxidation: Amorphous/Crystalline Interface Matters. <i>Advanced Energy Materials</i> , 2021 , 11, 2100187	21.8	34
224	Metallated Graphynes as a New Class of Photofunctional 2D Organometallic Nanosheets. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 11326-11334	16.4	10
223	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	3.6	7
222	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	16.4	44
221	A chemical etching strategy to improve and stabilize RuO ₂ -based nanoassemblies for acidic oxygen evolution. <i>Nano Energy</i> , 2021 , 84, 105909	17.1	15
220	Stepping Out of Transition Metals: Activating the Dual Atomic Catalyst through Main Group Elements. <i>Advanced Energy Materials</i> , 2021 , 11, 2101404	21.8	10
219	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	16.4	4
218	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	17.1	2
217	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	15.6	39
216	Unraveling the anomalous mechanoluminescence intensity change and pressure-induced red-shift for manganese-doped zinc sulfide. <i>Nano Energy</i> , 2021 , 85, 106005	17.1	9
215	Exposed facet-controlled N electroreduction on distinct PtFe nanostructures of nanocubes, nanorods and nanowires. <i>National Science Review</i> , 2021 , 8, nwa088	10.8	13
214	High energy X-ray radiation sensitive scintillating materials for medical imaging, cancer diagnosis and therapy. <i>Nano Energy</i> , 2021 , 79, 105437	17.1	22
213	WO _x -Surface Decorated PtNi@Pt Dendritic Nanowires as Efficient pH-Universal Hydrogen Evolution Electrocatalysts. <i>Advanced Energy Materials</i> , 2021 , 11, 2003192	21.8	27
212	Multi-Site Electrocatalysts Boost pH-Universal Nitrogen Reduction by High-Entropy Alloys. <i>Advanced Functional Materials</i> , 2021 , 31, 2006939	15.6	35

211	Alloyed Palladium-Silver Nanowires Enabling Ultrastable Carbon Dioxide Reduction to Formate. <i>Advanced Materials</i> , 2021 , 33, e2005821	24	23
210	Atomically targeting NiFe LDH to create multivacancies for OER catalysis with a small organic anchor. <i>Nano Energy</i> , 2021 , 81, 105606	17.1	69
209	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	13	26
208	Two-Dimensional Metal-Organic Frameworks-Based Electrocatalysts for Oxygen Evolution and Oxygen Reduction Reactions. <i>Advanced Energy and Sustainability Research</i> , 2021 , 2, 2000067	1.6	12
207	Exploiting Ru-Induced Lattice Strain in CoRu Nanoalloys for Robust Bifunctional Hydrogen Production. <i>Angewandte Chemie</i> , 2021 , 133, 3327-3335	3.6	13
206	Exploiting Ru-Induced Lattice Strain in CoRu Nanoalloys for Robust Bifunctional Hydrogen Production. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 3290-3298	16.4	120
205	Multimodal channel cancer chemotherapy by 2D functional gadolinium metal-organic framework. <i>National Science Review</i> , 2021 , 8, nwaa221	10.8	10
204	Graphdiyne-based metal atomic catalysts for synthesizing ammonia. <i>National Science Review</i> , 2021 , 8, nwaa213	10.8	42
203	Palladium-Silver Nanowires: Alloyed Palladium-Silver Nanowires Enabling Ultrastable Carbon Dioxide Reduction to Formate (Adv. Mater. 4/2021). <i>Advanced Materials</i> , 2021 , 33, 2170027	24	1
202	Native point defect modulated Cr-LaAlO as an excited contrast medium for near-infrared persistent deep-tissue bio-imaging. <i>Chemical Communications</i> , 2021 , 57, 9366-9369	5.8	3
201	Non-equilibrium insertion of lithium ions into graphite. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 12080-12086	13	2
200	Grain-Boundary-Engineered LaCuO Perovskite Nanobamboos for Efficient CO Reduction Reaction. <i>Nano Letters</i> , 2021 , 21, 980-987	11.5	18
199	High-performance diluted nickel nanoclusters decorating ruthenium nanowires for pH-universal overall water splitting. <i>Energy and Environmental Science</i> , 2021 , 14, 3194-3202	35.4	19
198	Graphdiyne Ultrathin Nanosheets for Efficient Water Splitting. <i>Advanced Functional Materials</i> , 2021 , 31, 2010112	15.6	19
197	Revisiting an ancient inorganic aggregation-induced emission system: An enlightenment to clusteroluminescence. <i>Aggregate</i> , 2021 , 2, e36	22.9	9
196	A highly efficient atomically thin curved PdIr bimetallic electrocatalyst. <i>National Science Review</i> , 2021 , 8, nwab019	10.8	27
195	High-resolution X-ray luminescence extension imaging. <i>Nature</i> , 2021 , 590, 410-415	50.4	113
194	Self-Validated Machine Learning Study of Graphdiyne-Based Dual Atomic Catalyst. <i>Advanced Energy Materials</i> , 2021 , 11, 2003796	21.8	21

193	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	16.4	20
192	Atomic Imaging of Electrically Switchable Striped Domains in Bi_2Se_3 . <i>Advanced Science</i> , 2021 , 8, e2100713	3.6	6
191	Segmented Au/PtCo heterojunction nanowires for efficient formic acid oxidation catalysis. <i>Fundamental Research</i> , 2021 , 1, 453-460		2
190	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	9.5	1
189	Dilute Aqueous-Aprotic Hybrid Electrolyte Enabling a Wide Electrochemical Window through Solvation Structure Engineering. <i>Advanced Materials</i> , 2021 , 33, e2102390	24	11
188	Phase-Dependent Electrocatalytic CO ₂ Reduction on Pd ₃ Bi Nanocrystals. <i>Angewandte Chemie</i> , 2021 , 133, 21909-21913	3.6	5
187	Phase-Dependent Electrocatalytic CO Reduction on Pd Bi Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 21741-21745	16.4	19
186	Electronic modification in graphdiyne for future electrocatalytic applications. <i>2D Materials</i> , 2021 , 8, 044009	3.9	3
185	Atomic-Strain Mapping of High-Index Facets in Late-Transition-Metal Nanoparticles for Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 22996-23001	16.4	4
184	Atomic-Strain Mapping of High-Index Facets in Late-Transition-Metal Nanoparticles for Electrocatalysis. <i>Angewandte Chemie</i> , 2021 , 133, 23178	3.6	
183	A New Hexagonal Cobalt Nanosheet Catalyst for Selective CO Conversion to Ethanal. <i>Journal of the American Chemical Society</i> , 2021 , 143, 15335-15343	16.4	15
182	Highly Controllable Hierarchically Porous Ag/Ag ₂ S Heterostructure by Cation Exchange for Efficient Hydrogen Evolution. <i>Small</i> , 2021 , 17, e2103064	11	5
181	Uncovering the Promotion of CeO ₂ /CoS Heterostructure with Specific Spatial Architectures on Oxygen Evolution Reaction. <i>Advanced Materials</i> , 2021 , 33, e2102593	24	27
180	A newly-explored Pd-based nanocrystal for the pH-universal electrosynthesis of H ₂ O ₂ . <i>Nano Energy</i> , 2021 , 89, 106480	17.1	11
179	A Review on CeO ₂ -Based Electrocatalyst and Photocatalyst in Energy Conversion. <i>Advanced Energy and Sustainability Research</i> , 2021 , 2, 2000063	1.6	21
178	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	13	5
177	Water Splitting: High-Index Faceted RuCo Nanoscrews for Water Electrosplitting (Adv. Energy Mater. 47/2020). <i>Advanced Energy Materials</i> , 2020 , 10, 2070191	21.8	
176	Designing the future atomic electrocatalyst for efficient energy systems. <i>Engineering Reports</i> , 2020 , 2, e12327	1.2	2

175	When rare earth meets carbon nanodots: mechanisms, applications and outlook. <i>Chemical Society Reviews</i> , 2020 , 49, 9220-9248	58.5	23
174	High-Index Faceted RuCo Nanoscrews for Water Electrosplitting. <i>Advanced Energy Materials</i> , 2020 , 10, 2002860	21.8	27
173	A Generalized Surface Chalcogenation Strategy for Boosting the Electrochemical N Fixation of Metal Nanocrystals. <i>Advanced Materials</i> , 2020 , 32, e2001267	24	58
172	Graphdiyne Interface Engineering: Highly Active and Selective Ammonia Synthesis. <i>Angewandte Chemie</i> , 2020 , 132, 13121-13127	3.6	5
171	Interface Modulation of MoS ₂ /Metal Oxide Heterostructures for Efficient Hydrogen Evolution Electrocatalysis. <i>Small</i> , 2020 , 16, e2002212	11	39
170	Ultrathin RuRh Alloy Nanosheets Enable High-Performance Lithium-CO ₂ Battery. <i>Matter</i> , 2020 , 2, 1494-1508	15.08	39
169	General synthesis of two-dimensional van der Waals heterostructure arrays. <i>Nature</i> , 2020 , 579, 368-374	50.4	195
168	2D graphdiyne loading ruthenium atoms for high efficiency water splitting. <i>Nano Energy</i> , 2020 , 72, 104667	7.1	55
167	A ZnS/CaZnOS Heterojunction for Efficient Mechanical-to-Optical Energy Conversion by Conduction Band Offset. <i>Advanced Materials</i> , 2020 , 32, e1907747	24	49
166	Strain modulation of phase transformation of noble metal nanomaterials. <i>Informa Materials</i> , 2020 , 2, 715-734	23.1	21
165	High-efficiency direct methane conversion to oxygenates on a cerium dioxide nanowires supported rhodium single-atom catalyst. <i>Nature Communications</i> , 2020 , 11, 954	17.4	70
164	Accelerating Atomic Catalyst Discovery by Theoretical Calculations-Machine Learning Strategy. <i>Advanced Energy Materials</i> , 2020 , 10, 1903949	21.8	41
163	Rare-earth-containing perovskite nanomaterials: design, synthesis, properties and applications. <i>Chemical Society Reviews</i> , 2020 , 49, 1109-1143	58.5	96
162	A full picture of intrinsic defects induced self-activation of elastic potential fluctuation within monolayered metal chalcogenide. <i>Nano Energy</i> , 2020 , 70, 104530	17.1	2
161	Anion charge density disturbance induces in-plane instabilities within 2D lateral heterojunction of TMD: An atomic view. <i>Nano Energy</i> , 2020 , 70, 104484	17.1	5
160	A General Method for Transition Metal Single Atoms Anchored on Honeycomb-Like Nitrogen-Doped Carbon Nanosheets. <i>Advanced Materials</i> , 2020 , 32, e1906905	24	97
159	Partially hydroxylated ultrathin iridium nanosheets as efficient electrocatalysts for water splitting. <i>National Science Review</i> , 2020 , 7, 1340-1348	10.8	27
158	Graphdiyne Interface Engineering: Highly Active and Selective Ammonia Synthesis. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 13021-13027	16.4	89

157	Exploring Bi Te Nanoplates as Versatile Catalysts for Electrochemical Reduction of Small Molecules. <i>Advanced Materials</i> , 2020 , 32, e1906477	24	37
156	Highly Distorted Platinum Nanorods for High-Efficiency Fuel Cell Catalysis. <i>CCS Chemistry</i> , 2020 , 2, 401-412		10
155	General synthesis of large-area flexible bi-atomic subnano thin lanthanide oxide nanoscrolls. <i>Nano Energy</i> , 2020 , 78, 105318	17.1	1
154	Ultrathin RuRh@(RuRh)O ₂ core@shell nanosheets as stable oxygen evolution electrocatalysts. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 15746-15751	13	10
153	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</i> , 2020 , 132, 1109-1113	3.6	4
152	The Spacer Cations Interplay for Efficient and Stable Layered 2D Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2020 , 10, 1901566	21.8	57
151	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	16.4	6
150	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	15.6	61
149	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	13	32
148	On-Demand, Ultrasensitive Hydrogenation System Enabled by Precisely Modulated Pd-Cd Nanocubes. <i>Journal of the American Chemical Society</i> , 2020 , 142, 962-972	16.4	24
147	Kinetic-Oriented Construction of MoS ₂ Synergistic Interface to Boost pH-Universal Hydrogen Evolution. <i>Advanced Functional Materials</i> , 2020 , 30, 1908520	15.6	35
146	Crystal-Phase-Engineered PdCu Electrocatalyst for Enhanced Ammonia Synthesis. <i>Angewandte Chemie</i> , 2020 , 132, 2671-2675	3.6	7
145	Crystal-Phase-Engineered PdCu Electrocatalyst for Enhanced Ammonia Synthesis. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 2649-2653	16.4	68
144	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	11	2
143	Self-Elimination of Intrinsic Defects Improves the Low-Temperature Performance of Perovskite Photovoltaics. <i>Joule</i> , 2020 , 4, 1961-1976	27.8	82
142	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	13	15
141	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	35.4	58
140	Loading Copper Atoms on Graphdiyne for Highly Efficient Hydrogen Production. <i>ChemPhysChem</i> , 2020 , 21, 2145-2149	3.2	25

139	Atomically deviated Pd-Te nanoplates boost methanol-tolerant fuel cells. <i>Science Advances</i> , 2020 , 6, eaba2731	27
138	Fast site-to-site electron transfer of high-entropy alloy nanocatalyst driving redox electrocatalysis. <i>Nature Communications</i> , 2020 , 11, 5437	17.4 86
137	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	16.4 128
136	NiCo O -Based Nanosheets with Uniform 4 nm Mesopores for Excellent Zn-Air Battery Performance. <i>Advanced Materials</i> , 2020 , 32, e2001651	24 39
135	Multimodal Luminescent Yb /Er /Bi -Doped Perovskite Single Crystals for X-ray Detection and Anti-Counterfeiting. <i>Advanced Materials</i> , 2020 , 32, e2004506	24 88
134	Selective Surface Reconstruction of a Defective Iridium-Based Catalyst for High-Efficiency Water Splitting. <i>Advanced Functional Materials</i> , 2020 , 30, 2004375	15.6 49
133	Probing the Irregular Lattice Strain-Induced Electronic Structure Variations on Late Transition Metals for Boosting the Electrocatalyst Activity. <i>Small</i> , 2020 , 16, e2002434	11 7
132	Boosted Oxygen Evolution Reactivity via Atomic Iron Doping in Cobalt Carbonate Hydroxide Hydrate. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 40220-40228	9.5 19
131	Atomic PdAu Interlayer Sandwiched into Pd/Pt Core/Shell Nanowires Achieves Superstable Oxygen Reduction Catalysis. <i>ACS Nano</i> , 2020 , 14, 11570-11578	16.7 37
130	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	6.4 13
129	A General Strategy to Glassy M-Te (M = Ru, Rh, Ir) Porous Nanorods for Efficient Electrochemical N Fixation. <i>Advanced Materials</i> , 2020 , 32, e1907112	24 66
128	Ultrathin Nanosheet of Graphdiyne-Supported Palladium Atom Catalyst for Efficient Hydrogen Production. <i>IScience</i> , 2019 , 11, 31-41	6.1 104
127	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	9.6 37
126	Emerging role of machine learning in light-matter interaction. <i>Light: Science and Applications</i> , 2019 , 8, 84	16.7 28
125	Defect Engineering of Palladium-Tin Nanowires Enables Efficient Electrocatalysts for Fuel Cell Reactions. <i>Nano Letters</i> , 2019 , 19, 6894-6903	11.5 30
124	pH-Universal Water Splitting Catalyst: Ru-Ni Nanosheet Assemblies. <i>IScience</i> , 2019 , 11, 492-504	6.1 67
123	Enhancing catalytic H ₂ generation by surface electronic tuning of systematically controlled Pt-Pb nanocrystals. <i>Nano Research</i> , 2019 , 12, 2335-2340	10 1
122	[Rh(Cp*)]-catalyzed arylfluorination of α -diazoketoesters for facile synthesis of α -aryl-fluoroketoesters. <i>Organic and Biomolecular Chemistry</i> , 2019 , 17, 1191-1201	3.9 7

121	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	16.4	76
120	Oxygen Vacancies on Layered Niobic Acid That Weaken the Catalytic Conversion of Polysulfides in Lithium-Sulfur Batteries. <i>Angewandte Chemie</i> , 2019 , 131, 11615	3.6	
119	An efficient ultrathin PtFeNi Nanowire/Ionic liquid conjugate electrocatalyst. <i>Applied Catalysis B: Environmental</i> , 2019 , 256, 117828	21.8	26
118	Blue energy case study and analysis: Attack of chloride ions on chromia passive film on metallic electrode of nanogenerator. <i>Nano Energy</i> , 2019 , 62, 103-110	17.1	10
117	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	16.4	309
116	Highly active electron-affinity for ultra-low barrier for alkaline ORR in Pd ₃ Cu. <i>Materials Today Energy</i> , 2019 , 12, 426-430	7	3
115	Mapping of atomic catalyst on graphdiyne. <i>Nano Energy</i> , 2019 , 62, 754-763	17.1	45
114	Expanding the toolbox for lanthanide-doped upconversion nanocrystals. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 383002	3	18
113	Rationally engineered active sites for efficient and durable hydrogen generation. <i>Nature Communications</i> , 2019 , 10, 2281	17.4	34
112	Nanostructured High-Performance Thin-Film Transistors and Phototransistors Fabricated by a High-Yield and Versatile Near-Field Nanolithography Strategy. <i>ACS Nano</i> , 2019 , 13, 6618-6630	16.7	11
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