

Bo-Long Huang

List of Publications by Citations

Source: <https://exaly.com/author-pdf/3605274/bo-long-huang-publications-by-citations.pdf>

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	All-inorganic perovskite nanocrystal scintillators. <i>Nature</i> , 2018 , 561, 88-93	50.4	773
263	Anchoring zero valence single atoms of nickel and iron on graphdiyne for hydrogen evolution. <i>Nature Communications</i> , 2018 , 9, 1460	17.4	538
262	A Eu-Eu ion redox shuttle imparts operational durability to Pb-I perovskite solar cells. <i>Science</i> , 2019 , 363, 265-270	33.3	533
261	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
260	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	35.4	236
259	General synthesis of two-dimensional van der Waals heterostructure arrays. <i>Nature</i> , 2020 , 579, 368-374	50.4	195
258	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	16.4	188
257	Overall water splitting by graphdiyne-exfoliated and -sandwiched layered double-hydroxide nanosheet arrays. <i>Nature Communications</i> , 2018 , 9, 5309	17.4	188
256	Strongly Coupled Nickel-Cobalt Nitrides/Carbon Hybrid Nanocages with Pt-Like Activity for Hydrogen Evolution Catalysis. <i>Advanced Materials</i> , 2019 , 31, e1805541	24	184
255	Bonding origin of optical contrast in phase-change memory materials. <i>Physical Review B</i> , 2010 , 81,	3.3	175
254	Channel-Rich RuCu Nanosheets for pH-Universal Overall Water Splitting Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 13983-13988	16.4	162
253	Ultrathin PtNiM (M = Rh, Os, and Ir) Nanowires as Efficient Fuel Oxidation Electrocatalytic Materials. <i>Advanced Materials</i> , 2019 , 31, e1805833	24	132
252	Amorphization activated ruthenium-tellurium nanorods for efficient water splitting. <i>Nature Communications</i> , 2019 , 10, 5692	17.4	130
251	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
250	Impacts of alkaline on the defects property and crystallization kinetics in perovskite solar cells. <i>Nature Communications</i> , 2019 , 10, 1112	17.4	124
249	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
248	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	9.6	119

247	Co O /Fe Co P Interface Nanowire for Enhancing Water Oxidation Catalysis at High Current Density. <i>Advanced Materials</i> , 2018 , 30, e1803551	24	115
246	High-resolution X-ray luminescence extension imaging. <i>Nature</i> , 2021 , 590, 410-415	50.4	113
245	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	13.1	106
244	Ultrathin Nanosheet of Graphdiyne-Supported Palladium Atom Catalyst for Efficient Hydrogen Production. <i>IScience</i> , 2019 , 11, 31-41	6.1	104
243	Atomic Arrangement in Metal-Doped NiS Boosts the Hydrogen Evolution Reaction in Alkaline Media. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 18676-18682	16.4	103
242	Interfacial Defect Engineering for Improved Portable Zinc-Air Batteries with a Broad Working Temperature. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 9459-9463	16.4	98
241	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
240	Rare-earth-containing perovskite nanomaterials: design, synthesis, properties and applications. <i>Chemical Society Reviews</i> , 2020 , 49, 1109-1143	58.5	96
239	Graphdiyne Interface Engineering: Highly Active and Selective Ammonia Synthesis. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 13021-13027	16.4	89
238	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
237	Piezophotonic effect based on mechanoluminescent materials for advanced flexible optoelectronic applications. <i>Nano Energy</i> , 2019 , 55, 389-400	17.1	87
236	Fast site-to-site electron transfer of high-entropy alloy nanocatalyst driving redox electrocatalysis. <i>Nature Communications</i> , 2020 , 11, 5437	17.4	86
235	Transition metal-doped nickel phosphide nanoparticles as electro- and photocatalysts for hydrogen generation reactions. <i>Applied Catalysis B: Environmental</i> , 2019 , 242, 186-193	21.8	84
234	Multimetal Borides Nanochains as Efficient Electrocatalysts for Overall Water Splitting. <i>Small</i> , 2019 , 15, e1804212	11	83
233	Self-Elimination of Intrinsic Defects Improves the Low-Temperature Performance of Perovskite Photovoltaics. <i>Joule</i> , 2020 , 4, 1961-1976	27.8	82
232	Wrinkled Rh2P Nanosheets as Superior pH-Universal Electrocatalysts for Hydrogen Evolution Catalysis. <i>Advanced Energy Materials</i> , 2018 , 8, 1801891	21.8	77
231	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
230	Fluorographdiyne: A Metal-Free Catalyst for Applications in Water Reduction and Oxidation. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 13897-13903	16.4	72

229	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
228	Mechanically Excited Multicolor Luminescence in Lanthanide Ions. <i>Advanced Materials</i> , 2019 , 31, e1807062		70
227	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
226	Coupled s-p-d Exchange in Facet-Controlled Pd ₃ Pb Tripods Enhances Oxygen Reduction Catalysis. <i>CheM</i> , 2018 , 4, 359-371	16.2	68
225	Crystal-Phase-Engineered PdCu Electrocatalyst for Enhanced Ammonia Synthesis. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 2649-2653	16.4	68
224	pH-Universal Water Splitting Catalyst: Ru-Ni Nanosheet Assemblies. <i>IScience</i> , 2019 , 11, 492-504	6.1	67
223	Locally collective hydrogen bonding isolates lead octahedra for white emission improvement. <i>Nature Communications</i> , 2019 , 10, 5190	17.4	67
222	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	3.8	67
221	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
220	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
219	A Generalized Surface Chalcogenation Strategy for Boosting the Electrochemical N Fixation of Metal Nanocrystals. <i>Advanced Materials</i> , 2020 , 32, e2001267	24	58
218	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
217	The Spacer Cations Interplay for Efficient and Stable Layered 2D Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2020 , 10, 1901566	21.8	57
216	Barrier-free Interface Electron Transfer on PtFe-Fe ₂ C Janus-like Nanoparticles Boosts Oxygen Catalysis. <i>CheM</i> , 2018 , 4, 1153-1166	16.2	56
215	Integrating temporal and spatial control of electronic transitions for bright multiphoton upconversion. <i>Nature Communications</i> , 2019 , 10, 1811	17.4	55
214	2D graphdiyne loading ruthenium atoms for high efficiency water splitting. <i>Nano Energy</i> , 2020 , 72, 104667	7.1	55
213	Tailored transition metal-doped nickel phosphide nanoparticles for the electrochemical oxygen evolution reaction (OER). <i>Chemical Communications</i> , 2018 , 54, 8630-8633	5.8	52
212	Theory of piezotronics and piezo-phototronics. <i>MRS Bulletin</i> , 2018 , 43, 928-935	3.2	50

211	A ZnS/CaZnOS Heterojunction for Efficient Mechanical-to-Optical Energy Conversion by Conduction Band Offset. <i>Advanced Materials</i> , 2020 , 32, e1907747	24	49
210	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
209	Platinum Porous Nanosheets with High Surface Distortion and Pt Utilization for Enhanced Oxygen Reduction Catalysis. <i>Advanced Functional Materials</i> , 2019 , 29, 1904429	15.6	46
208	Mapping of atomic catalyst on graphdiyne. <i>Nano Energy</i> , 2019 , 62, 754-763	17.1	45
207	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
206	Advanced Ultrathin RuPdM (M = Ni, Co, Fe) Nanosheets Electrocatalyst Boosts Hydrogen Evolution. <i>ACS Central Science</i> , 2019 , 5, 1991-1997	16.8	44
205	4f fine-structure levels as the dominant error in the electronic structures of binary lanthanide oxides. <i>Journal of Computational Chemistry</i> , 2016 , 37, 825-35	3.5	43
204	Graphdiyne-based metal atomic catalysts for synthesizing ammonia. <i>National Science Review</i> , 2021 , 8, nwaa213	10.8	42
203	Accelerating Atomic Catalyst Discovery by Theoretical Calculations-Machine Learning Strategy. <i>Advanced Energy Materials</i> , 2020 , 10, 1903949	21.8	41
202	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, 11423-40	5.1	39
201	Interface Modulation of MoS ₂ /Metal Oxide Heterostructures for Efficient Hydrogen Evolution Electrocatalysis. <i>Small</i> , 2020 , 16, e2002212	11	39
200	Ultrathin RuRh Alloy Nanosheets Enable High-Performance Lithium-CO ₂ Battery. <i>Matter</i> , 2020 , 2, 1494-1508	15.0	39
199	NiCo O _x -Based Nanosheets with Uniform 4 nm Mesopores for Excellent Zn-Air Battery Performance. <i>Advanced Materials</i> , 2020 , 32, e2001651	24	39
198	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
197	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	3.6	37
196	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
195	Exploring Bi ₂ Te Nanoplates as Versatile Catalysts for Electrochemical Reduction of Small Molecules. <i>Advanced Materials</i> , 2020 , 32, e1906477	24	37
194	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	13	37

193	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
192	Energy harvesting and conversion mechanisms for intrinsic upconverted mechano-persistent luminescence in CaZnOS. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 25946-25974	3.6	35
191	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
190	Fundamental View of Electronic Structures of $\text{[NaYF}_4\text{]}_n$, $\text{[NaGdF}_4\text{]}_n$, and $\text{[NaLuF}_4\text{]}_n$. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 18858-18870	3.8	35
189	Multi-Site Electrocatalysts Boost pH-Universal Nitrogen Reduction by High-Entropy Alloys. <i>Advanced Functional Materials</i> , 2021 , 31, 2006939	15.6	35
188	Multicolor Tuning and Temperature-Triggered Anomalous Eu-Related Photoemission Enhancement via Interplay of Accelerated Energy Transfer and Release of Defect-Trapped Electrons in the Tb,Eu-Doped Strontium-Aluminum Chlorites. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 36157-36170	9.5	35
187	Confining Excitation Energy in Er ³⁺ -Sensitized Upconversion Nanocrystals through Tm ³⁺ -Mediated Transient Energy Trapping. <i>Angewandte Chemie</i> , 2017 , 129, 7713-7717	3.6	34
186	Rationally engineered active sites for efficient and durable hydrogen generation. <i>Nature Communications</i> , 2019 , 10, 2281	17.4	34
185	Nature of defects and gap states in GeTe model phase change materials. <i>Physical Review B</i> , 2012 , 85,	3.3	34
184	Atomically Dispersed Cu Catalyst for Efficient Chemoselective Hydrogenation Reaction. <i>Nano Letters</i> , 2021 ,	11.5	34
183	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
182	Nanophotonic energy storage in upconversion nanoparticles. <i>Nano Energy</i> , 2019 , 56, 473-481	17.1	33
181	Constructing three-dimensional porous Ni/NiS nano-interfaces for hydrogen evolution electrocatalysis under alkaline conditions. <i>Dalton Transactions</i> , 2017 , 46, 10700-10706	4.3	32
180	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
179	Defect Engineering of Palladium-Tin Nanowires Enables Efficient Electrocatalysts for Fuel Cell Reactions. <i>Nano Letters</i> , 2019 , 19, 6894-6903	11.5	30
178	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	13	29
177	Emerging role of machine learning in light-matter interaction. <i>Light: Science and Applications</i> , 2019 , 8, 84	16.7	28
176	Analysis of Ultrahigh Apparent Mobility in Oxide Field-Effect Transistors. <i>Advanced Science</i> , 2019 , 6, 1801189	13.89	28

175	"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	3.6	27
174	High-Index Faceted RuCo Nanoscrews for Water Electrosplitting. <i>Advanced Energy Materials</i> , 2020 , 10, 2002860	21.8	27
173	Partially hydroxylated ultrathin iridium nanosheets as efficient electrocatalysts for water splitting. <i>National Science Review</i> , 2020 , 7, 1340-1348	10.8	27
172	Atomically deviated Pd-Te nanoplates boost methanol-tolerant fuel cells. <i>Science Advances</i> , 2020 , 6, eaba2731	27.3	27
171	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
170	A highly efficient atomically thin curved PdIr bimetallic electrocatalyst. <i>National Science Review</i> , 2021 , 8, nwab019	10.8	27
169	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
168	An efficient ultrathin PtFeNi Nanowire/Ionic liquid conjugate electrocatalyst. <i>Applied Catalysis B: Environmental</i> , 2019 , 256, 117828	21.8	26
167	Intrinsic energy conversions for photon-generation in piezo-phototronic materials: A case study on alkaline niobates. <i>Nano Energy</i> , 2018 , 47, 150-171	17.1	26
166	Intrinsic deep hole trap levels in Cu ₂ O with self-consistent repulsive Coulomb energy. <i>Solid State Communications</i> , 2016 , 230, 49-53	1.6	26
165	Unraveling energy conversion modeling in the intrinsic persistent upconverted luminescence of solids: a study of native point defects in antiferromagnetic Er ₂ O ₃ . <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 13564-82	3.6	26
164	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
163	Loading Copper Atoms on Graphdiyne for Highly Efficient Hydrogen Production. <i>ChemPhysChem</i> , 2020 , 21, 2145-2149	3.2	25
162	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	9.5	25
161	Subnanometer high-entropy alloy nanowires enable remarkable hydrogen oxidation catalysis. <i>Nature Communications</i> , 2021 , 12, 6261	17.4	24
160	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
159	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
158	When rare earth meets carbon nanodots: mechanisms, applications and outlook. <i>Chemical Society Reviews</i> , 2020 , 49, 9220-9248	58.5	23

157	"Energy Selection Channels" for High-Performance Electrolyte: Anion-Frenkel Defect Pair as Dominant Source for O Ion Conductions in Pyrochlore-type Lanthanide Hafnium Oxides SOFC. <i>Inorganic Chemistry</i> , 2017 , 56, 7975-7984	5.1	23
156	Anti-poisoned oxygen reduction by the interface modulated Pd@NiO core@shell. <i>Nano Energy</i> , 2019 , 58, 234-243	17.1	23
155	Alloyed Palladium-Silver Nanowires Enabling Ultrastable Carbon Dioxide Reduction to Formate. <i>Advanced Materials</i> , 2021 , 33, e2005821	24	23
154	Superiority of DFT+U with non-linear core correction for open-shell binary rare-earth metal oxides: a case study of native point defects in cerium oxides. <i>Philosophical Magazine</i> , 2014 , 94, 3052-3071	1.6	22
153	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
152	Strain modulation of phase transformation of noble metal nanomaterials. <i>Information Materials</i> , 2020 , 2, 715-734	23.1	21
151	Channel-Rich RuCu Nanosheets for pH-Universal Overall Water Splitting Electrocatalysis. <i>Angewandte Chemie</i> , 2019 , 131, 14121-14126	3.6	21
150	Self-Validated Machine Learning Study of Graphdiyne-Based Dual Atomic Catalyst. <i>Advanced Energy Materials</i> , 2021 , 11, 2003796	21.8	21
149	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
148	Fluorographdiyne: A Metal-Free Catalyst for Applications in Water Reduction and Oxidation. <i>Angewandte Chemie</i> , 2019 , 131, 14035-14041	3.6	20
147	One-Step Controllable Synthesis of Catalytic Ni ₄ Mo/MoOx/Cu Nanointerfaces for Highly Efficient Water Reduction. <i>Advanced Energy Materials</i> , 2019 , 9, 1901454	21.8	20
146	Atomic Arrangement in Metal-Doped NiS ₂ Boosts the Hydrogen Evolution Reaction in Alkaline Media. <i>Angewandte Chemie</i> , 2019 , 131, 18849-18855	3.6	20
145	Strong compensation hinders the p-type doping of ZnO: a glance over surface defect levels. <i>Solid State Communications</i> , 2016 , 237-238, 34-37	1.6	20
144	Rh-doped PdAg nanoparticles as efficient methanol tolerance electrocatalytic materials for oxygen reduction. <i>Science Bulletin</i> , 2019 , 64, 54-62	10.6	20
143	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
142	Phenylene-bridged perylene diimide-porphyrin acceptors for non-fullerene organic solar cells. <i>Sustainable Energy and Fuels</i> , 2018 , 2, 2616-2624	5.8	20
141	Predictions of mechanical and thermodynamic properties of Mg ₁₇ Al ₁₂ and Mg ₂ Sn from first-principles calculations. <i>Philosophical Magazine</i> , 2015 , 95, 1626-1645	1.6	19
140	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	9.5	19

139	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
138	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
137	Graphdiyne Ultrathin Nanosheets for Efficient Water Splitting. <i>Advanced Functional Materials</i> , 2021 , 31, 2010112	15.6	19
136	Phase-Dependent Electrocatalytic CO Reduction on Pd Bi Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 21741-21745	16.4	19
135	Expanding the toolbox for lanthanide-doped upconversion nanocrystals. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 383002	3	18
134	Interfacial Defect Engineering for Improved Portable Zinc-Air Batteries with a Broad Working Temperature. <i>Angewandte Chemie</i> , 2019 , 131, 9559-9563	3.6	18
133	Grain-Boundary-Engineered LaCuO Perovskite Nanobamboos for Efficient CO Reduction Reaction. <i>Nano Letters</i> , 2021 , 21, 980-987	11.5	18
132	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
131	Understanding contact electrification at liquid-solid interfaces from surface electronic structure. <i>Nature Communications</i> , 2021 , 12, 1752	17.4	17
130	Defect models and electrical storage mechanism in GeSbTe phase change materials. <i>Journal of Non-Crystalline Solids</i> , 2012 , 358, 2393-2397	3.9	16
129	Solution-based SnGaO thin-film transistors for Zn- and In-free oxide electronic devices. <i>Applied Physics Letters</i> , 2018 , 113, 122101	3.4	16
128	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
127	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
126	Precise Patterning of Large-Scale TFT Arrays Based on Solution-Processed Oxide Semiconductors: A Comparative Study of Additive and Subtractive Approaches. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1700981	4.6	15
125	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
124	The role of tryptophans in the UV-B absorption of a UVR8 photoreceptor--a computational study. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 10786-94	3.6	14
123	Surface engineering at the interface of core/shell nanoparticles promotes hydrogen peroxide generation. <i>National Science Review</i> , 2018 , 5, 895-906	10.8	14
122	CuII-Mediated Ultra-efficient Electrooxidation of Glucose. <i>ChemElectroChem</i> , 2017 , 4, 2788-2792	4.3	14

121	Probing oxide-ion conduction in low-temperature SOFCs. <i>Nano Energy</i> , 2018 , 50, 88-96	17.1	14
120	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
119	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
118	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
117	Exploiting Ru-Induced Lattice Strain in CoRu Nanoalloys for Robust Bifunctional Hydrogen Production. <i>Angewandte Chemie</i> , 2021 , 133, 3327-3335	3.6	13
116	Doping of RE ions in the 2D ZnO layered system to achieve low-dimensional upconverted persistent luminescence based on asymmetric doping in ZnO systems. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 12683-12711	3.6	12
115	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
114	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
113	Nature of electrical resistivity and structural stability in N-doped GeTe models for reliable phase-change materials. <i>Physica Status Solidi (B): Basic Research</i> , 2015 , 252, 431-441	1.3	11
112	Dilute Aqueous-Aprotic Hybrid Electrolyte Enabling a Wide Electrochemical Window through Solvation Structure Engineering. <i>Advanced Materials</i> , 2021 , 33, e2102390	24	11
111	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
110	Manipulating Crystallization Kinetics in High-Performance Blade-Coated Perovskite Solar Cells via Cosolvent-Assisted Phase Transition.. <i>Advanced Materials</i> , 2022 , e2200276	24	11
109	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
108	Highly Distorted Platinum Nanorods for High-Efficiency Fuel Cell Catalysis. <i>CCS Chemistry</i> , 2020 , 2, 401-412	17.2	10
107	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
106	Metallated Graphynes as a New Class of Photofunctional 2D Organometallic Nanosheets. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 11326-11334	16.4	10
105	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
104	Multiple structural defects in ultrathin NiFe-LDH nanosheets synergistically and remarkably boost water oxidation reaction. <i>Nano Research</i> , 2021 , 13, 1000-1010	10	10

103	Multimodal channel cancer chemotherapy by 2D functional gadolinium metal-organic framework. <i>National Science Review</i> , 2021 , 8, nwa221	10.8	10
102	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
101	An interfacial electron transfer relay center for accelerating the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 18304-18310	13	9
100	Mesoporosity-Enabled Selectivity of Mesoporous Palladium-Based Nanocrystals Catalysts in Semihydrogenation of Alkynes.. <i>Angewandte Chemie - International Edition</i> , 2021 , e202114539	16.4	9
99	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
98	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
97	Revisiting an ancient inorganic aggregation-induced emission system: An enlightenment to clusteroluminescence. <i>Aggregate</i> , 2021 , 2, e36	22.9	9
96	Energy conversion modeling of the intrinsic persistent luminescence of solids via energy transfer paths between transition levels. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 9457-9469	3.6	8
95	Unravelling the energy transfer of Er-self-sensitized upconversion in Er-Yb-Er clustered core@shell nanoparticles. <i>Nanoscale</i> , 2017 , 9, 18490-18497	7.7	8
94	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
93	Lanthanide electronic perturbation in PtIn (La, Ce, Pr and Nd) alloys for enhanced methanol oxidation reaction activity. <i>Energy and Environmental Science</i> ,	35.4	8
92	A top-down strategy for amorphization of hydroxyl compounds for electrocatalytic oxygen evolution.. <i>Nature Communications</i> , 2022 , 13, 1187	17.4	8
91	Unraveling the correlation between oxide-ion motion and upconversion luminescence in $\text{La}_2\text{Mo}_2\text{O}_9\text{:Yb}^{3+},\text{Er}^{3+}$ derivatives. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 10965-10970	7.1	7
90	[Rh(Cp*)]-catalyzed arylfluorination of α -diazoketoesters for facile synthesis of α -aryl- β -fluoroketoesters. <i>Organic and Biomolecular Chemistry</i> , 2019 , 17, 1191-1201	3.9	7
89	Atomic relaxation, stability and electronic properties of Mg ₂ Sn (100) surfaces from ab-initio calculations. <i>Journal of Magnesium and Alloys</i> , 2016 , 4, 62-67	8.8	7
88	A new family of sp ³ -hybridized carbon phases. <i>Chinese Physics B</i> , 2016 , 25, 016103	1.2	7
87	Revealing Atomic Structure and Oxidation States of Dopants in Charge-Ordered Nanoparticles for Migration-Promoted Oxygen-Exchange Capacity. <i>Chemistry of Materials</i> , 2019 , 31, 5769-5777	9.6	7
86	Comparison and correlation of structural disorder caused by anion Frenkel in affecting ion conduction of La ₂ Hf ₂ O ₇ and La ₂ Mo ₂ O ₉ as high performance electrolytes in SOFCs. <i>MRS Advances</i> , 2017 , 2, 3317-3322	0.7	7

85	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
84	Crystal-Phase-Engineered PdCu Electrocatalyst for Enhanced Ammonia Synthesis. <i>Angewandte Chemie</i> , 2020 , 132, 2671-2675	3.6	7
83	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
82	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
81	Polycrystalline boron nitride constructed from hexagonal boron nitride. <i>RSC Advances</i> , 2014 , 4, 38589-38593	3.7	6
80	Graphdiyne-Induced Iron Vacancy for Efficient Nitrogen Conversion. <i>Advanced Science</i> , 2021 , e2102721	13.6	6
79	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
78	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
77	Atomic Imaging of Electrically Switchable Striped Domains in Bi ₂ Se ₃ . <i>Advanced Science</i> , 2021 , 8, e2100713	3.6	6
76	Interface formation energy, bonding, energy band alignment in BiNaF ₄ related core shell models: For future multi-layer core shell luminescence materials. <i>Journal of Rare Earths</i> , 2017 , 35, 315-334	3.7	5
75	Semiconductor-metal and metal-semiconductor transitions in twisting graphene nanoribbons. <i>Solid State Communications</i> , 2015 , 202, 39-42	1.6	5
74	Graphdiyne Interface Engineering: Highly Active and Selective Ammonia Synthesis. <i>Angewandte Chemie</i> , 2020 , 132, 13121-13127	3.6	5
73	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
72	A unique feature of chiral transition of a difluorobenzo[c]phenanthrene molecule confined in a boron-nitride nanotube based on molecular dynamics simulations. <i>Chemical Physics Letters</i> , 2014 , 591, 265-267	2.5	5
71	Bonding and optical contrast in phase change memory materials. <i>Physica Status Solidi (B): Basic Research</i> , 2012 , 249, 1867-1873	1.3	5
70	Effective Repeatable Mechanoluminescence in Heterostructured Li Na NbO ₃ :Pr. <i>Small</i> , 2021 , 17, e2103441	4.1	5
69	Phase-Dependent Electrocatalytic CO ₂ Reduction on Pd ₃ Bi Nanocrystals. <i>Angewandte Chemie</i> , 2021 , 133, 21909-21913	3.6	5
68	Highly Controllable Hierarchically Porous Ag/Ag ₂ S Heterostructure by Cation Exchange for Efficient Hydrogen Evolution. <i>Small</i> , 2021 , 17, e2103064	11	5

67	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
66	Graphdiyne based catalysts for energy applications. <i>Materials Chemistry Frontiers</i> ,	7.8	5
65	Hexagonal PtBi Intermetallic Inlaid with Sub-Monolayer Pb Oxyhydroxide Boosts Methanol Oxidation.. <i>Small</i> , 2022 , e2107803	11	5
64	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> ,2103781	21.8	5
63	:Hydrogen Doping Oxide Transistors: Analysis of Ultrahigh Apparent Mobility in Oxide Field-Effect Transistors (Adv. Sci. 7/2019). <i>Advanced Science</i> , 2019 , 6, 1970040	13.6	4
62	Basis set effect on defect induced spin polarization of a carbon nanotube in density functional theory calculations. <i>Chemical Physics Letters</i> , 2013 , 585, 107-111	2.5	4
61	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
60	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
59	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
58	Dynamically self-activated catalyst for direct synthesis of hydrogen peroxide (H ₂ O ₂). <i>Materials Today Energy</i> , 2018 , 10, 307-316	7	4
57	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
56	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
55	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
54	Phonon Evidence of Kohn Anomalies in Nanogenerator ZnO. <i>Nano Energy</i> , 2019 , 59, 626-635	17.1	3
53	Tunable dipole induced hydrogen bonds between a hydrogen molecule and alkali halides. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 20361-7	3.6	3
52	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
51	Synergistic Effect of Graphdiyne-based Electrocatalysts. <i>Chemical Research in Chinese Universities</i> ,1	2.2	3
50	Direct Observation of Heterogeneous Surface Reactivity and Reconstruction on Terminations of Grain Boundaries of Platinum 2021 , 3, 622-629		3

49	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
48	Electronic modification in graphdiyne for future electrocatalytic applications. <i>2D Materials</i> , 2021 , 8, 044009	9.9	3
47	Broadband multimodal emission in Sb-doped CaZnOS-layered semiconductors. <i>Science China Materials</i> , 2022 , 65, 1329-1336	7.1	3
46	Boosting the Electrocatalytic Oxygen Evolution of Perovskite $\text{LaCo}_{1-x}\text{Fe}_x\text{O}_3$ by the Construction of Yolk-Shell Nanostructures and Electronic Modulation. <i>Small</i> , 2021 , 17, 2101131	11	3
45	Designing the future atomic electrocatalyst for efficient energy systems. <i>Engineering Reports</i> , 2020 , 2, e12327	1.2	2
44	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
43	Stabilizing reconstruction induced by O protrusions of the ZnO (0001) polar surface. <i>RSC Advances</i> , 2014 , 4, 54249-54255	3.7	2
42	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
41	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
40	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
39	Metallated Graphynes as a New Class of Photofunctional 2D Organometallic Nanosheets. <i>Angewandte Chemie</i> , 2021 , 133, 11427-11435	3.6	2
38	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
37	Non-equilibrium insertion of lithium ions into graphite. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 12080-12086	13	2
36	Segmented Au/PtCo heterojunction nanowires for efficient formic acid oxidation catalysis. <i>Fundamental Research</i> , 2021 , 1, 453-460		2
35	Engineering the synergistic effect of carbon dots-stabilized atomic and subnanometric ruthenium as highly efficient electrocatalysts for robust hydrogen evolution. <i>SmartMat</i> ,	22.8	2
34	Interface synergistic effects induced multi-mode luminescence. <i>Nano Research</i> , 2021 , 13, 1000-1008	10	2
33	Application of machine learning for advanced material prediction and design. <i>EcoMat</i> ,	9.4	2
32	Non-noble metal-based bifunctional electrocatalysts for hydrogen production. <i>Rare Metals</i> , 2021 , 40, 1000-1008	5.5	2

31	Highly Loaded Independent Pt Atoms on Graphdiyne for pH-General Methanol Oxidation Reaction.. <i>Advanced Science</i> , 2022 , e2104991	13.6	2
30	Carboxylated carbon nanotubes with high electrocatalytic activity for oxygen evolution in acidic conditions. <i>Informa Materily</i> , 2022 , 4,	23.1	2
29	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
28	Mechanoluminescence: Mechanically Excited Multicolor Luminescence in Lanthanide Ions (Adv. Mater. 7/2019). <i>Advanced Materials</i> , 2019 , 31, 1970051	24	1
27	Ab initio models for polycrystalline diamond constructed from cold-compressed disordered graphite. <i>Materials Research Express</i> , 2015 , 2, 045601	1.7	1
26	General synthesis of large-area flexible bi-atomic subnano thin lanthanide oxide nanoscrolls. <i>Nano Energy</i> , 2020 , 78, 105318	17.1	1
25	Electronic View of Triboelectric Nanogenerator for Energy Harvesting: Mechanisms and Applications. <i>Advanced Energy and Sustainability Research</i> , 2021 , 2, 2000087	1.6	1
24	PalladiumSilver Nanowires: Alloyed PalladiumSilver Nanowires Enabling Ultrastable Carbon Dioxide Reduction to Formate (Adv. Mater. 4/2021). <i>Advanced Materials</i> , 2021 , 33, 2170027	24	1
23	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
22	A highly ionic conductive succinonitrile-based composite solid electrolyte for lithium metal batteries. <i>Nano Research</i> , 1	10	1
21	Ultrastable bimetallic Fe ₂ Mo for efficient oxygen reduction reaction in pH-universal applications. <i>Nano Research</i> , 1	10	1
20	Atomically precise bimetallic metal ensembles with tailorable synergistic effects. <i>Cell Reports Physical Science</i> , 2022 , 100850	6.1	1
19	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
18	Rare-Earth-Based Perovskite Cs ₂ AgScCl ₆ :Bi for Strong Full Visible Spectrum Emission. <i>Advanced Functional Materials</i> , 2204780	15.6	1
17	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
16	New Mode of Stress Sensing in Multicolor (Ca ₁ -Sr) ₈ Mg ₃ Al ₂ Si ₇ O ₂₈ :Eu ²⁺ Solid-solution Compounds. <i>Nano Energy</i> , 2021 , 93, 106799	17.1	0
15	Chiral self-assembly of terminal alkyne and selenium clusters organic-inorganic hybrid. <i>Nano Research</i> , 1	10	0
14	Flexible Modulations pH on Selectivity of Syngas Formation via CO ₂ Reduction on Atomic Catalysts. <i>Nano Energy</i> , 2022 , 107382	17.1	0

- 13 Oxygen Vacancies on Layered Niobic Acid That Weaken the Catalytic Conversion of Polysulfides in Lithium Sulfur Batteries. *Angewandte Chemie*, **2019**, 131, 11615 3.6
- 12 Electronic Structures of Alkaline Rare Earth Fluoride-Based Upconversion Nanomaterials **2019**, 447-467
- 11 Low-temperature phase transformation from nanotube to sp³ superhard carbon phase. *Chinese Physics B*, **2015**, 24, 066102 1.2
- 10 Water Splitting: High-Index Faceted RuCo Nanoscrews for Water Electrosplitting (Adv. Energy Mater. 47/2020). *Advanced Energy Materials*, **2020**, 10, 2070191 21.8
- 9 Titelbild: Oxygen Vacancies on Layered Niobic Acid That Weaken the Catalytic Conversion of Polysulfides in Lithium Sulfur Batteries (Angew. Chem. 33/2019). *Angewandte Chemie*, **2019**, 131, 11245 3.6
- 8 Hydrogen Evolution Reaction: One-Step Controllable Synthesis of Catalytic Ni₄Mo/MoO_x/Cu Nanointerfaces for Highly Efficient Water Reduction (Adv. Energy Mater. 41/2019). *Advanced Energy Materials*, **2019**, 9, 1970162 21.8
- 7 Rare-earth Nanomaterials for PEC Energy Conversion **2022**, 399-410
- 6 Rare-earth Nanomaterials for PC Energy Conversion **2022**, 309-323
- 5 Rare-earth Nanomaterials for EC Energy Conversion **2022**, 171-189
- 4 Rare-Earth Nanomaterials for PV Energy Conversion **2022**, 559-579
- 3 Atomic-Strain Mapping of High-Index Facets in Late-Transition-Metal Nanoparticles for Electrocatalysis. *Angewandte Chemie*, **2021**, 133, 23178 3.6
- 2 Entanglement of Spatial and Energy Segmentation for C₁ Pathways in CO₂ Reduction on Carbon Skeleton Supported Atomic Catalysts (Adv. Energy Mater. 14/2022). *Advanced Energy Materials*, **2022**, 12, 2270057 21.8
- 1 Neighboring effects of active sites for CO₂ transition to C₁ products on atomic catalysts. *Nano Energy*, **2022**, 99, 107398 17.1