

Meng Gu

List of Publications by Year in Descending Order

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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.

228
papers

14,220
citations

64
h-index

115
g-index

239
ext. papers

17,860
ext. citations

12.4
avg, IF

6.69
L-index

#	Paper	IF	Citations
228	Revealing the Intrinsic Atomic Structure and Chemistry of Amorphous LiO-Containing Products in Li-O Batteries Using Cryogenic Electron Microscopy.. <i>Journal of the American Chemical Society</i> , 2022	16.4	6
227	Insights into the Determining Effect of Carbon Support Properties on Anchoring Active Sites in Fe-Ni Catalysts toward the Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2022 , 12, 1601-1613	13.1	5
226	Ultrathin polycrystalline Co ₃ O ₄ nanosheets with enriched oxygen vacancies for efficient electrochemical oxygen evolution and 5-hydroxymethylfurfural oxidation. <i>Applied Surface Science</i> , 2022 , 584, 152553	6.7	3
225	Single atom surface engineering: A new strategy to boost electrochemical activities of Pt catalysts. <i>Nano Energy</i> , 2022 , 93, 106813	17.1	3
224	Organic frameworks confined Cu single atoms and nanoclusters for tandem electrocatalytic CO ₂ reduction to methane. <i>SmartMat</i> , 2022 , 3, 183-193	22.8	2
223	Cryo-Electron Tomography of Highly Deformable and Adherent Solid-Electrolyte Interphase Exoskeleton in Li-Metal Batteries with Ether-Based Electrolyte (Adv. Mater. 13/2022). <i>Advanced Materials</i> , 2022 , 34, 2270101	24	
222	Atomic-level correlation between the electrochemical performance of an oxygen-evolving catalyst and the effects of CeO ₂ functionalization. <i>Nano Research</i> , 2022 , 15, 2994-3000	10	3
221	Electrocatalytic Reduction of Nitrate to Ammonia on Low-Cost Ultrathin CoOx Nanosheets. <i>ACS Catalysis</i> , 2021 , 11, 15135-15140	13.1	16
220	Clarifying the Roles of Cobalt and Nickel in the Structural Evolution of Layered Cathodes for Sodium-Ion Batteries. <i>Nano Letters</i> , 2021 , 21, 9619-9624	11.5	1
219	Enhanced Oxygen Evolution Reaction Electrocatalysis on Co(OH) ₂ @MnO ₂ Decorated Carbon Nanoarrays: Effect of Heterostructure, Conductivity and Charge Storage Capability. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 114515	3.9	0
218	A general strategy for preparing pyrrolic-N type single-atom catalysts via pre-located isolated atoms. <i>Nature Communications</i> , 2021 , 12, 6806	17.4	18
217	Conformal three-dimensional interphase of Li metal anode revealed by low-dose cryoelectron microscopy. <i>Matter</i> , 2021 ,	12.7	11
216	A Regioselectively Oxidized 2D Bi/BiOx Lateral Nano-Heterostructure for Hypoxic Photodynamic Therapy. <i>Advanced Materials</i> , 2021 , e2102562	24	16
215	Ten Thousand-Cycle Ultrafast Energy Storage of Wadsley-Roth Phase Fe-Nb Oxides with a Desolvation Promoting Interfacial Layer. <i>Nano Letters</i> , 2021 , 21, 9675-9683	11.5	5
214	Super-Flexible Freestanding BiMnO Membranes with Stable Ferroelectricity and Ferromagnetism. <i>Advanced Science</i> , 2021 , 8, e2102178	13.6	5
213	Probing atomic structure of beam-sensitive energy materials in their native states using cryogenic transmission electron microscopes. <i>IScience</i> , 2021 , 24, 103385	6.1	2
212	Cu ₃ PdxN nanocrystals for efficient CO ₂ electrochemical reduction to methane. <i>Electrochimica Acta</i> , 2021 , 371, 137793	6.7	1

211	Poor Stability of Li CO in the Solid Electrolyte Interphase of a Lithium-Metal Anode Revealed by Cryo-Electron Microscopy. <i>Advanced Materials</i> , 2021 , 33, e2100404	24	37
210	Solid-State Synthesis of Highly Dispersed Nitrogen-Coordinated Single Iron Atom Electrocatalysts for Proton Exchange Membrane Fuel Cells. <i>Nano Letters</i> , 2021 , 21, 3633-3639	11.5	10
209	Stable Lithium Metal Anodes with a GaO Artificial Solid Electrolyte Interphase in Damp Air. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 21467-21473	9.5	1
208	Probing the Na metal solid electrolyte interphase via cryo-transmission electron microscopy. <i>Nature Communications</i> , 2021 , 12, 3066	17.4	21
207	Engineering Pt and Fe dual-metal single atoms anchored on nitrogen-doped carbon with high activity and durability towards oxygen reduction reaction for zinc-air battery. <i>Applied Catalysis B: Environmental</i> , 2021 , 286, 119891	21.8	51
206	Dual-Doping and Synergism toward High-Performance Seawater Electrolysis. <i>Advanced Materials</i> , 2021 , 33, e2101425	24	35
205	Transition of the Reaction from Three-Phase to Two-Phase by Using a Hybrid Conductor for High-Energy-Density High-Rate Solid-State Li-O ₂ Batteries. <i>Angewandte Chemie</i> , 2021 , 133, 5885-5890	3.6	8
204	Transition of the Reaction from Three-Phase to Two-Phase by Using a Hybrid Conductor for High-Energy-Density High-Rate Solid-State Li-O Batteries. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 5821-5826	16.4	22
203	Electric Polarization Switching on an Atomically Thin Metallic Oxide. <i>Nano Letters</i> , 2021 , 21, 144-150	11.5	5
202	Ultrahigh Oxygen Evolution Reaction Activity Achieved Using Ir Single Atoms on Amorphous CoO _x Nanosheets. <i>ACS Catalysis</i> , 2021 , 11, 123-130	13.1	62
201	Additive stabilization of SEI on graphite observed using cryo-electron microscopy. <i>Energy and Environmental Science</i> , 2021 , 14, 4882-4889	35.4	20
200	New Insight of Pyrrole-Like Nitrogen for Boosting Hydrogen Evolution Activity and Stability of Pt Single Atoms. <i>Small</i> , 2021 , 17, e2004453	11	15
199	Studies on the Sodium Storage Performances of Na ₃ Al _x V ₂ (PO ₄) ₃ @C Composites from Calculations and Experimental Analysis. <i>ACS Applied Energy Materials</i> , 2021 , 4, 1120-1129	6.1	3
198	Ultralow Volume Change of P2-Type Layered Oxide Cathode for Na-Ion Batteries with Controlled Phase Transition by Regulating Distribution of Na. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 20960-20969	16.4	14
197	Ultralow Volume Change of P2-Type Layered Oxide Cathode for Na-Ion Batteries with Controlled Phase Transition by Regulating Distribution of Na ⁺ . <i>Angewandte Chemie</i> , 2021 , 133, 21128-21137	3.6	5
196	Single Iridium Atom Doped NiP Catalyst for Optimal Oxygen Evolution. <i>Journal of the American Chemical Society</i> , 2021 , 143, 13605-13615	16.4	32
195	Ferroelectricity and Ferromagnetism Achieved via Adjusting Dimensionality in BiFeO/BiMnO Superlattices. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 41315-41322	9.5	0
194	Single-atom catalyst for high-performance methanol oxidation. <i>Nature Communications</i> , 2021 , 12, 5235	17.4	16

193	Single-atom Bi-anchored Au hydrogels with specifically boosted peroxidase-like activity for cascade catalysis and sensing. <i>Sensors and Actuators B: Chemical</i> , 2021 , 343, 130108	8.5	7
192	Design Principles of Sodium/Potassium Protection Layer for High-Power High-Energy Sodium/Potassium-Metal Batteries in Carbonate Electrolytes: a Case Study of Na Te/K Te. <i>Advanced Materials</i> , 2021 , 33, e2106353	24	20
191	Atomic origin of room-temperature two-dimensional itinerant ferromagnetism in an oxide-monolayer heterostructure. <i>Applied Materials Today</i> , 2021 , 24, 101101	6.6	0
190	Enabling Atomic-Scale Imaging of Sensitive Potassium Metal and Related Solid Electrolyte Interphases Using Ultralow-Dose Cryo-TEM. <i>Advanced Materials</i> , 2021 , 33, e2102666	24	4
189	Doping-modulated strain control of bifunctional electrocatalysis for rechargeable zinc-air batteries. <i>Energy and Environmental Science</i> , 2021 , 14, 5035-5043	35.4	3
188	Cryo-Electron Tomography of Highly Deformable and Adherent Solid-Electrolyte Interphase Exoskeleton in Li-Metal Batteries with Ether-based Electrolyte. <i>Advanced Materials</i> , 2021 , e2108252	24	5
187	Twist-to-Untwist Evolution and Cation Polarization Behavior of Hybrid Halide Perovskite Nanoplatelets Revealed by Cryogenic Transmission Electron Microscopy. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12187-12195	6.4	1
186	Three-dimensional visualization of lithium metal anode via low-dose cryogenic electron microscopy tomography. <i>iScience</i> , 2021 , 24, 103418	6.1	2
185	Nickel confined in 2D earth-abundant oxide layers for highly efficient and durable oxygen evolution catalysts. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 13340-13350	13	5
184	Tunable Plasmon-Induced Charge Transport and Photon Absorption of Bimetallic Au-Ag Nanoparticles on ZnO Photoanode for Photoelectrochemical Enhancement under Visible Light. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 14105-14117	3.8	10
183	Realizing record high performance in n-type Bi ₂ Te ₃ -based thermoelectric materials. <i>Energy and Environmental Science</i> , 2020 , 13, 2106-2114	35.4	90
182	Interrogation of the Reaction Mechanism in a Na-O Battery Using Transmission Electron Microscopy. <i>ACS Nano</i> , 2020 , 14, 3669-3677	16.7	22
181	Reversible loss of core-shell structure for Ni-Au bimetallic nanoparticles during CO ₂ hydrogenation. <i>Nature Catalysis</i> , 2020 , 3, 411-417	36.5	88
180	Enhanced CO Electroreduction on Neighboring Zn/Co Monomers by Electronic Effect. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 12664-12668	16.4	83
179	Ultrahigh-Loading of Ir Single Atoms on NiO Matrix to Dramatically Enhance Oxygen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2020 , 142, 7425-7433	16.4	186
178	Phase-Controlled Synthesis of 2H/3R-MoSe ₂ Nanosheets on P-Doped Carbon for Synergistic Hydrogen Evolution. <i>ACS Applied Nano Materials</i> , 2020 , 3, 6516-6523	5.6	5
177	Atomic origin of CO-Interaction effect of PtPb@Pt catalyst revealed by in situ environmental transmission electron microscopy. <i>Nano Energy</i> , 2020 , 76, 105099	17.1	5
176	Phase Modulation and Chemical Activation of MoSe ₂ by Phosphorus for Electrocatalytic Hydrogen Evolution Reaction. <i>Energy Technology</i> , 2020 , 8, 1901503	3.5	11

175	Electrochemical Synthesis of Ammonia from Nitrogen Under Mild Conditions: Current Status and Challenges. <i>Electrochemical Energy Reviews</i> , 2020 , 3, 239-270	29.3	27
174	Fast Zn ²⁺ kinetics of vanadium oxide nanotubes in high-performance rechargeable zinc-ion batteries. <i>Journal of Power Sources</i> , 2020 , 451, 227767	8.9	13
173	Fabrication and Interfacial Electronic Structure of Wide Bandgap NiO and Ga ₂ O ₃ p-n Heterojunction. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 456-463	4	27
172	Gas-assisted transformation of gold from fcc to the metastable 4H phase. <i>Nature Communications</i> , 2020 , 11, 552	17.4	8
171	Self-Regulated Phenomenon of Inorganic Artificial Solid Electrolyte Interphase for Lithium Metal Batteries. <i>Nano Letters</i> , 2020 , 20, 4029-4037	11.5	47
170	Enhanced CO ₂ Electroreduction on Neighboring Zn/Co Monomers by Electronic Effect. <i>Angewandte Chemie</i> , 2020 , 132, 12764-12768	3.6	8
169	Direct atomic scale characterization of the surface structure and planar defects in the organic-inorganic hybrid CH ₃ NH ₃ PbI ₃ by Cryo-TEM. <i>Nano Energy</i> , 2020 , 73, 104820	17.1	22
168	Local Coordination and Ordering Engineering to Design Efficient Core-Shell Oxygen Reduction Catalysts. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 144501	3.9	2
167	Wavelength-Dependent Solar N Fixation into Ammonia and Nitrate in Pure Water. <i>Research</i> , 2020 , 2020, 3750314	7.8	14
166	Atomically Defined Undercoordinated Active Sites for Highly Efficient CO ₂ Electroreduction. <i>Advanced Functional Materials</i> , 2020 , 30, 1907658	15.6	115
165	N-doping induced tensile-strained Pt nanoparticles ensuring an excellent durability of the oxygen reduction reaction. <i>Journal of Catalysis</i> , 2020 , 382, 247-255	7.3	28
164	Single-Atom Ir-Anchored 3D Amorphous NiFe Nanowire@Nanosheets for Boosted Oxygen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 3539-3546	9.5	19
163	Realizing high-efficiency power generation in low-cost PbS-based thermoelectric materials. <i>Energy and Environmental Science</i> , 2020 , 13, 579-591	35.4	50
162	Biomimetic photocatalytic sulfonation of alkenes to access ketosulfones with single-atom iron site. <i>Green Chemistry</i> , 2020 , 22, 230-237	10	37
161	Sub-3 nm Intermetallic Ordered PtIn Clusters for Oxygen Reduction Reaction. <i>Advanced Science</i> , 2020 , 7, 1901279	13.6	32
160	Atomic-scale tuning of oxygen-doped BiTeSe to simultaneously enhance the Seebeck coefficient and electrical conductivity. <i>Nanoscale</i> , 2020 , 12, 1580-1588	7.7	14
159	Reversible Electrochemical Interface of Mg Metal and Conventional Electrolyte Enabled by Intermediate Adsorption. <i>ACS Energy Letters</i> , 2020 , 5, 200-206	20.1	17
158	Carbon Monoxide Gas Induced 4H-to- Phase Transformation of Gold As Revealed by Transmission Electron Microscopy. <i>Inorganic Chemistry</i> , 2020 , 59, 14415-14423	5.1	1

157	Identifying the Active Sites of a Single Atom Catalyst with pH-Universal Oxygen Reduction Reaction Activity. <i>Cell Reports Physical Science</i> , 2020 , 1, 100115	6.1	12
156	MnPS spin-flop transition-induced anomalous Hall effect in graphite flake van der Waals proximity coupling. <i>Nanoscale</i> , 2020 , 12, 23266-23273	7.7	3
155	Extension of Compositional Space to the Ternary in Alloy Chiral Nanoparticles through Galvanic Replacement Reactions. <i>Advanced Science</i> , 2020 , 7, 2001321	13.6	8
154	Boosting the oxygen evolution reaction using defect-rich ultra-thin ruthenium oxide nanosheets in acidic media. <i>Energy and Environmental Science</i> , 2020 , 13, 5143-5151	35.4	45
153	Probing the electrochemical evolutions of Na ⁺ /O ₂ nanobatteries on Pt@NCNT cathodes using in-situ environmental TEM. <i>Energy Storage Materials</i> , 2020 , 33, 88-94	19.4	10
152	Molecular engineering of dispersed nickel phthalocyanines on carbon nanotubes for selective CO ₂ reduction. <i>Nature Energy</i> , 2020 , 5, 684-692	62.3	151
151	Boosting alkaline hydrogen evolution: the dominating role of interior modification in surface electrocatalysis. <i>Energy and Environmental Science</i> , 2020 , 13, 3110-3118	35.4	43
150	Investigation of the influences of heat treatment on the microstructures and thermal properties of Al-20Si alloy fabricated by powder extrusion. <i>Materials Characterization</i> , 2020 , 168, 110522	3.9	4
149	Antisymmetric Magnetoresistance in a van der Waals Antiferromagnetic/Ferromagnetic Layered MnPS/FeGeTe Stacking Heterostructure. <i>ACS Nano</i> , 2020 , 14, 12037-12044	16.7	20
148	500 Wh kg Class Li Metal Battery Enabled by a Self-Organized Core-Shell Composite Anode. <i>Advanced Materials</i> , 2020 , 32, e2004793	24	49
147	Co single-atom anchored on Co ₃ O ₄ and nitrogen-doped active carbon toward bifunctional catalyst for zinc-air batteries. <i>Applied Catalysis B: Environmental</i> , 2020 , 260, 118188	21.8	94
146	High-Safety and High-Energy-Density Lithium Metal Batteries in a Novel Ionic-Liquid Electrolyte. <i>Advanced Materials</i> , 2020 , 32, e2001741	24	81
145	CO Gas Induced Phase Separation in PtPb@Pt Catalyst and Formation of Ultrathin Pb Nanosheets Probed by In Situ Transmission Electron Microscopy. <i>Small</i> , 2019 , 15, e1903122	11	8
144	Interface engineering to enhance the oxygen evolution reaction under light irradiation. <i>Applied Physics Letters</i> , 2019 , 115, 103901	3.4	3
143	The Role of Ru in Improving the Activity of Pd toward Hydrogen Evolution and Oxidation Reactions in Alkaline Solutions. <i>ACS Catalysis</i> , 2019 , 9, 9614-9621	13.1	61
142	Oxygen vacancy-rich MoO ₃ nanobelts for photocatalytic N ₂ reduction to NH ₃ in pure water. <i>Catalysis Science and Technology</i> , 2019 , 9, 803-810	5.5	42
141	Highly stable single Pt atomic sites anchored on aniline-stacked graphene for hydrogen evolution reaction. <i>Energy and Environmental Science</i> , 2019 , 12, 1000-1007	35.4	264
140	Mo modulation effect on the hydrogen binding energy of hexagonal-close-packed Ru for hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 2780-2786	13	33

139	Stable cycling of mesoporous Sn ₄ P ₃ /SnO ₂ @C nanosphere anode with high initial coulombic efficiency for Li-ion batteries. <i>Energy Storage Materials</i> , 2019 , 18, 125-132	19.4	37
138	Thermoelectrics: Mg ₃ B ₂ Bi ₂ Family: A Promising Substitute for the State-of-the-Art n-Type Thermoelectric Materials near Room Temperature (Adv. Funct. Mater. 4/2019). <i>Advanced Functional Materials</i> , 2019 , 29, 1970020	15.6	1
137	Comparison of TiO ₂ and g-C ₃ N ₄ 2D/2D nanocomposites from three synthesis protocols for visible-light induced hydrogen evolution. <i>Catalysis Science and Technology</i> , 2019 , 9, 75-85	5.5	29
136	Fe and N Co-Doped Porous Carbon Nanospheres with High Density of Active Sites for Efficient CO ₂ Electroreduction. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 16651-16659	3.8	34
135	Light-triggered evolution of molecular clusters toward sub-nanoscale heterojunctions with high interface density. <i>Chemical Communications</i> , 2019 , 55, 8146-8149	5.8	0
134	Composition-dependent CO ₂ electrochemical reduction activity and selectivity on Au@Pd core-shell nanoparticles. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 16954-16961	13	34
133	Phthalocyanine Precursors To Construct Atomically Dispersed Iron Electrocatalysts. <i>ACS Catalysis</i> , 2019 , 9, 6252-6261	13.1	33
132	Interconnected Vertically Stacked 2D-MoS ₂ for Ultrastable Cycling of Rechargeable Li-Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 20762-20769	9.5	24
131	High-Performance and Reactivation Characteristics of High-Quality, Graphene-Supported SnS Heterojunctions for a Lithium-Ion Battery Anode. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 22314-22322	9.5	22
130	Metallic Glass Catalysts: Attractive In Situ Self-Reconstructed Hierarchical Gradient Structure of Metallic Glass for High Efficiency and Remarkable Stability in Catalytic Performance (Adv. Funct. Mater. 19/2019). <i>Advanced Functional Materials</i> , 2019 , 29, 1970131	15.6	
129	In Situ TEM of Phosphorus-Dopant-Induced Nanopore Formation in Delithiated Silicon Nanowires. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 17313-17320	9.5	8
128	Ultra-stable 4H-gold nanowires up to 800 °C in a vacuum. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 23812-23818	13	3
127	The enhancement of thermoelectric performance of p-type Li doped Mg ₂ Ge _{0.4} Sn _{0.6} by Si addition. <i>Scripta Materialia</i> , 2019 , 166, 122-127	5.6	8
126	Failure mechanism of Au@Co ₉ S ₈ yolk-shell anode in Li-ion batteries unveiled by in-situ transmission electron microscopy. <i>Applied Physics Letters</i> , 2019 , 114, 113901	3.4	28
125	Nitrogen-coordinated single iron atom catalysts derived from metal organic frameworks for oxygen reduction reaction. <i>Nano Energy</i> , 2019 , 61, 60-68	17.1	126
124	Attractive In Situ Self-Reconstructed Hierarchical Gradient Structure of Metallic Glass for High Efficiency and Remarkable Stability in Catalytic Performance. <i>Advanced Functional Materials</i> , 2019 , 29, 1807857	15.6	47
123	Synthesis of three-dimensional free-standing WSe ₂ /C hybrid nanofibers as anodes for high-capacity lithium/sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 19898-19908	13	18
122	Revealing the Chemical and Structural Evolution of VO Nanoribbons in Lithium-Ion Batteries Using In Situ Transmission Electron Microscopy. <i>Analytical Chemistry</i> , 2019 , 91, 11055-11062	7.8	11

121	NASICON-type $\text{Na}_3\text{Fe}_2(\text{PO}_4)_3$ as a low-cost and high-rate anode material for aqueous sodium-ion batteries. <i>Nano Energy</i> , 2019 , 64, 103941	17.1	46
120	A safe and non-flammable sodium metal battery based on an ionic liquid electrolyte. <i>Nature Communications</i> , 2019 , 10, 3302	17.4	91
119	Direct Observation of Yolk-Shell Transforming to Gold Single Atoms and Clusters with Superior Oxygen Evolution Reaction Efficiency. <i>ACS Nano</i> , 2019 , 13, 8865-8871	16.7	53
118	Atomic layer deposited Pt-Ru dual-metal dimers and identifying their active sites for hydrogen evolution reaction. <i>Nature Communications</i> , 2019 , 10, 4936	17.4	186
117	Fast lithiation of NiO investigated by in situ transmission electron microscopy. <i>Applied Physics Letters</i> , 2019 , 115, 143902	3.4	5
116	Probing the Origin of Gold Dissolution and Tunneling Across NiP Shell Using in situ Transmission Electron Microscopy. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 46947-46952	9.5	1
115	Real-Time Imaging of the Electrochemical Process in Na-O Nanobatteries Using Pt@CNT and PtIr@CNT Air Cathodes. <i>ACS Nano</i> , 2019 , 13, 14399-14407	16.7	11
114	Dumbbell to Core-Shell Structure Transformation of Ni@Au Nanoparticle Driven by External Stimuli. <i>Particle and Particle Systems Characterization</i> , 2019 , 36, 1800426	3.1	1
113	Composite nanofibers through in-situ reduction with abundant active sites as flexible and stable anode for lithium ion batteries. <i>Composites Part B: Engineering</i> , 2019 , 161, 369-375	10	15
112	Highly active and stable ruthenate pyrochlore for enhanced oxygen evolution reaction in acidic medium electrolysis. <i>Applied Catalysis B: Environmental</i> , 2019 , 244, 494-501	21.8	67
111	Chromium Oxynitride Electrocatalysts for Electrochemical Synthesis of Ammonia Under Ambient Conditions. <i>Small Methods</i> , 2019 , 3, 1800324	12.8	33
110	One-Pot Synthesis of a Highly Active 3-Dimensional Fe_3N_x @CNTs/rGO Composite Catalyst for Oxygen Reduction. <i>ChemElectroChem</i> , 2019 , 6, 504-513	4.3	4
109	$\text{Mg}_3\text{Sb}_2\text{Bi}_2$ Family: A Promising Substitute for the State-of-the-Art n-Type Thermoelectric Materials near Room Temperature. <i>Advanced Functional Materials</i> , 2019 , 29, 1807235	15.6	60
108	Tracing the Origin of Visible Light Enhanced Oxygen Evolution Reaction. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1801543	4.6	5
107	Ternary PtPdCu Multicubes as a Highly Active and Durable Catalyst toward the Oxygen Reduction Reaction. <i>ChemElectroChem</i> , 2018 , 5, 1345-1349	4.3	14
106	Creation and Ordering of Oxygen Vacancies at WO and Perovskite Interfaces. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 17480-17486	9.5	20
105	Designing principle for Ni-rich cathode materials with high energy density for practical applications. <i>Nano Energy</i> , 2018 , 49, 434-452	17.1	241
104	A robust electrochemical sensing platform using carbon paste electrode modified with molecularly imprinted microsphere and its application on methyl parathion detection. <i>Biosensors and Bioelectronics</i> , 2018 , 106, 71-77	11.8	47

103	Lithium-Ion Batteries: A Single-Step Hydrothermal Route to 3D Hierarchical Cu ₂ O/CuO/rGO Nanosheets as High-Performance Anode of Lithium-Ion Batteries (Small 5/2018). <i>Small</i> , 2018 , 14, 1870020	11	9
102	Covalently bonded 2D/2D O-g-C ₃ N ₄ /TiO ₂ heterojunction for enhanced visible-light photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2018 , 237, 1130-1138	21.8	89
101	3D nitrogen-doped graphite foam@Prussian blue: an electrochemical sensing platform for highly sensitive determination of HO and glucose. <i>Mikrochimica Acta</i> , 2018 , 185, 86	5.8	19
100	Anisotropic Ordering in 1T-Molybdenum and Tungsten Ditelluride Layers Alloyed with Sulfur and Selenium. <i>ACS Nano</i> , 2018 , 12, 894-901	16.7	35
99	Interface energy band alignment at the all-transparent p-n heterojunction based on NiO and BaSnO ₃ . <i>Applied Physics Letters</i> , 2018 , 112, 171605	3.4	24
98	Simultaneously achieved temperature-insensitive high energy density and efficiency in domain engineered BaTiO ₃ -Bi(Mg _{0.5} Zr _{0.5})O ₃ lead-free relaxor ferroelectrics. <i>Nano Energy</i> , 2018 , 52, 203-210	17.1	234
97	Co nanoparticle embedded in atomically-dispersed Co-N-C nanofibers for oxygen reduction with high activity and remarkable durability. <i>Nano Energy</i> , 2018 , 52, 485-493	17.1	131
96	Ultrahigh Malleability of the Lithiation-Induced Li _x Si Phase. <i>ACS Applied Energy Materials</i> , 2018 , 1, 4211-4220	4.2	11
95	A Single-Step Hydrothermal Route to 3D Hierarchical Cu ₂ O/CuO/rGO Nanosheets as High-Performance Anode of Lithium-Ion Batteries. <i>Small</i> , 2018 , 14, 1702667	11	68
94	Morphology-Controlled Discharge Profile and Reversible Cu Extrusion and Dissolution in Biomimetic CuS. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 41458-41464	9.5	7
93	Tuning Structural and Compositional Effects in Pd@Au Nanowires for Highly Selective and Active CO ₂ Electrochemical Reduction Reaction. <i>Advanced Energy Materials</i> , 2018 , 8, 1802238	21.8	88
92	Design of active nickel single-atom decorated MoS ₂ as a pH-universal catalyst for hydrogen evolution reaction. <i>Nano Energy</i> , 2018 , 53, 458-467	17.1	147
91	Electrochemical Synthesis of Nanostructured Metal-Doped Titanates and Investigation of Their Activity as Oxygen Evolution Photoanodes. <i>ACS Applied Energy Materials</i> , 2018 ,	6.1	3
90	Spontaneous repairing liquid metal/Si nanocomposite as a smart conductive-additive-free anode for lithium-ion battery. <i>Nano Energy</i> , 2018 , 50, 359-366	17.1	64
89	Lithium-Pretreated Hard Carbon as High-Performance Sodium-Ion Battery Anodes. <i>Advanced Energy Materials</i> , 2018 , 8, 1801441	21.8	69
88	Intragranular cracking as a critical barrier for high-voltage usage of layer-structured cathode for lithium-ion batteries. <i>Nature Communications</i> , 2017 , 8, 14101	17.4	436
87	Atomic scale study of surface orientations and energies of Ti ₂ O ₃ crystals. <i>Applied Physics Letters</i> , 2017 , 111, 181603	3.4	3
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