

Meng Gu

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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
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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	Formation of the spinel phase in the layered composite cathode used in Li-ion batteries. <i>ACS Nano</i> , 2013 , 7, 760-7	16.7	656
227	Mesoporous silicon sponge as an anti-pulverization structure for high-performance lithium-ion battery anodes. <i>Nature Communications</i> , 2014 , 5, 4105	17.4	646
226	Lewis acid-base interactions between polysulfides and metal organic framework in lithium sulfur batteries. <i>Nano Letters</i> , 2014 , 14, 2345-52	11.5	529
225	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
224	Controlling SEI formation on SnSb-porous carbon nanofibers for improved Na ion storage. <i>Advanced Materials</i> , 2014 , 26, 2901-8	24	396
223	Corrosion/fragmentation of layered composite cathode and related capacity/voltage fading during cycling process. <i>Nano Letters</i> , 2013 , 13, 3824-30	11.5	311
222	Bismuth nanoparticle decorating graphite felt as a high-performance electrode for an all-vanadium redox flow battery. <i>Nano Letters</i> , 2013 , 13, 1330-5	11.5	310
221	In situ TEM study of lithiation behavior of silicon nanoparticles attached to and embedded in a carbon matrix. <i>ACS Nano</i> , 2012 , 6, 8439-47	16.7	291
220	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
219	Functioning Mechanism of AlF3 Coating on the Li- and Mn-Rich Cathode Materials. <i>Chemistry of Materials</i> , 2014 , 26, 6320-6327	9.6	264
218	Probing the failure mechanism of SnO2 nanowires for sodium-ion batteries. <i>Nano Letters</i> , 2013 , 13, 5203-5211	11.5	244
217	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
216	Structural and Chemical Evolution of Li- and Mn-Rich Layered Cathode Material. <i>Chemistry of Materials</i> , 2015 , 27, 1381-1390	9.6	240
215	Nanorod niobium oxide as powerful catalysts for an all vanadium redox flow battery. <i>Nano Letters</i> , 2014 , 14, 158-65	11.5	238
214	Simultaneously achieved temperature-insensitive high energy density and efficiency in domain engineered BaTiO3-Bi(Mg0.5Zr0.5)O3 lead-free relaxor ferroelectrics. <i>Nano Energy</i> , 2018 , 52, 203-210	17.1	234
213	Demonstration of an electrochemical liquid cell for operando transmission electron microscopy observation of the lithiation/delithiation behavior of Si nanowire battery anodes. <i>Nano Letters</i> , 2013 , 13, 6106-12	11.5	232
212	Mitigating voltage fade in cathode materials by improving the atomic level uniformity of elemental distribution. <i>Nano Letters</i> , 2014 , 14, 2628-35	11.5	223

211	Ionic liquid-enhanced solid state electrolyte interface (SEI) for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 8464	13	207
210	Surface-driven sodium ion energy storage in nanocellular carbon foams. <i>Nano Letters</i> , 2013 , 13, 3909-14	11.5	202
209	Highly reversible Mg insertion in nanostructured Bi for Mg ion batteries. <i>Nano Letters</i> , 2014 , 14, 255-60	11.5	201
208	Conflicting roles of nickel in controlling cathode performance in lithium ion batteries. <i>Nano Letters</i> , 2012 , 12, 5186-91	11.5	199
207	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
206	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
205	Inward lithium-ion breathing of hierarchically porous silicon anodes. <i>Nature Communications</i> , 2015 , 6, 8844	17.4	179
204	Nanoscale silicon as anode for Li-ion batteries: The fundamentals, promises, and challenges. <i>Nano Energy</i> , 2015 , 17, 366-383	17.1	177
203	Lithium ion battery performance of silicon nanowires with carbon skin. <i>ACS Nano</i> , 2014 , 8, 915-22	16.7	165
202	A facile approach using MgCl ₂ to formulate high performance Mg ²⁺ electrolytes for rechargeable Mg batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 3430	13	161
201	Nanoscale Phase Separation, Cation Ordering, and Surface Chemistry in Pristine Li _{1.2} Ni _{0.2} Mn _{0.6} O ₂ for Li-Ion Batteries. <i>Chemistry of Materials</i> , 2013 , 25, 2319-2326	9.6	157
200	Synergistic Catalysis between Pd and Fe in Gas Phase Hydrodeoxygenation of m-Cresol. <i>ACS Catalysis</i> , 2014 , 4, 3335-3345	13.1	153
199	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
198	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
197	Enhanced Li ⁺ ion transport in LiNi _{0.5} Mn _{1.5} O ₄ through control of site disorder. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 13515-21	3.6	137
196	How to Obtain Reproducible Results for Lithium Sulfur Batteries?. <i>Journal of the Electrochemical Society</i> , 2013 , 160, A2288-A2292	3.9	136
195	Coordination chemistry in magnesium battery electrolytes: how ligands affect their performance. <i>Scientific Reports</i> , 2013 , 3, 3130	4.9	133
194	Regulated Breathing Effect of Silicon Negative Electrode for Dramatically Enhanced Performance of Li-Ion Battery. <i>Advanced Functional Materials</i> , 2015 , 25, 1426-1433	15.6	132

193	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
192	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
191	Probing the degradation mechanisms in electrolyte solutions for Li-ion batteries by in situ transmission electron microscopy. <i>Nano Letters</i> , 2014 , 14, 1293-9	11.5	119
190	Electronic origin for the phase transition from amorphous Li(x)Si to crystalline Li ₁₅ Si ₄ . <i>ACS Nano</i> , 2013 , 7, 6303-9	16.7	117
189	Atomically Defined Undercoordinated Active Sites for Highly Efficient CO ₂ Electroreduction. <i>Advanced Functional Materials</i> , 2020 , 30, 1907658	15.6	115
188	Dual phase Li ₄ Ti ₅ O ₁₂ @TiO ₂ nanowire arrays as integrated anodes for high-rate lithium-ion batteries. <i>Nano Energy</i> , 2014 , 9, 383-391	17.1	97
187	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
186	A safe and non-flammable sodium metal battery based on an ionic liquid electrolyte. <i>Nature Communications</i> , 2019 , 10, 3302	17.4	91
185	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
184	In situ transmission electron microscopy probing of native oxide and artificial layers on silicon nanoparticles for lithium ion batteries. <i>ACS Nano</i> , 2014 , 8, 11816-23	16.7	90
183	Visualizing nanoscale 3D compositional fluctuation of lithium in advanced lithium-ion battery cathodes. <i>Nature Communications</i> , 2015 , 6, 8014	17.4	89
182	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
181	Revisit Carbon/Sulfur Composite for Li-S Batteries. <i>Journal of the Electrochemical Society</i> , 2013 , 160, A1624-A1628	3.9	89
180	Following the transient reactions in lithium-sulfur batteries using an in situ nuclear magnetic resonance technique. <i>Nano Letters</i> , 2015 , 15, 3309-16	11.5	88
179	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
178	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
177	Nanocomposite polymer electrolyte for rechargeable magnesium batteries. <i>Nano Energy</i> , 2015 , 12, 750-759	15.9	86
176	Enhanced CO Electroreduction on Neighboring Zn/Co Monomers by Electronic Effect. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 12664-12668	16.4	83

175	Controlled Nucleation and Growth Process of Li ₂ S ₂ /Li ₂ S in Lithium-Sulfur Batteries. <i>Journal of the Electrochemical Society</i> , 2013 , 160, A1992-A1996	3.9	82
174	Bending-induced symmetry breaking of lithiation in germanium nanowires. <i>Nano Letters</i> , 2014 , 14, 4622-4625	7.5	81
173	High-Safety and High-Energy-Density Lithium Metal Batteries in a Novel Ionic-Liquid Electrolyte. <i>Advanced Materials</i> , 2020 , 32, e2001741	24	81
172	Electrochemical Kinetics and Performance of Layered Composite Cathode Material Li[Li _{0.2} Ni _{0.2} Mn _{0.6}]O ₂ . <i>Journal of the Electrochemical Society</i> , 2013 , 160, A2212-A2219	3.9	80
171	Atomistic Conversion Reaction Mechanism of WO ₃ in Secondary Ion Batteries of Li, Na, and Ca. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 6244-7	16.4	70
170	Lithium-Pretreated Hard Carbon as High-Performance Sodium-Ion Battery Anodes. <i>Advanced Energy Materials</i> , 2018 , 8, 1801441	21.8	69
169	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
168	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
167	Direct Evidence of Lithium-Induced Atomic Ordering in Amorphous TiO ₂ Nanotubes. <i>Chemistry of Materials</i> , 2014 , 26, 1660-1669	9.6	65
166	Interfacial ferromagnetism and exchange bias in CaRuO ₃ /CaMnO ₃ superlattices. <i>Physical Review Letters</i> , 2012 , 109, 197202	7.4	64
165	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
164	XEDS STEM tomography for 3D chemical characterization of nanoscale particles. <i>Ultramicroscopy</i> , 2013 , 131, 24-32	3.1	62
163	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
162	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
161	Interface modifications by anion receptors for high energy lithium ion batteries. <i>Journal of Power Sources</i> , 2014 , 250, 313-318	8.9	61
160	Mg ₃ +5BxBi 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
159	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
158	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

157	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
156	Surface and structural stabilities of carbon additives in high voltage lithium ion batteries. <i>Journal of Power Sources</i> , 2013 , 227, 211-217	8.9	49
155	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
154	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
153	Self-Regulated Phenomenon of Inorganic Artificial Solid Electrolyte Interphase for Lithium Metal Batteries. <i>Nano Letters</i> , 2020 , 20, 4029-4037	11.5	47
152	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
151	NASICON-type Na ₃ Fe ₂ (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
150	Enhanced intercalation dynamics and stability of engineered micro/nano-structured electrode materials: vanadium oxide mesocrystals. <i>Small</i> , 2013 , 9, 3880-6	11	46
149	Electron-rich driven electrochemical solid-state amorphization in Li-Si alloys. <i>Nano Letters</i> , 2013 , 13, 4511-15	11.65	45
148	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
147	Formation of interfacial layer and long-term cyclability of Li-O ₂ batteries. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 14141-51	9.5	43
146	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
145	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
144	Preparation and Photoluminescence of Single-Crystalline GdVO ₄ :Eu ³⁺ +Nanorods by Hydrothermal Conversion of Gd(OH) ₃ nanorods. <i>Crystal Growth and Design</i> , 2008 , 8, 1422-1425	3.5	41
143	Mesoscale origin of the enhanced cycling-stability of the Si-conductive polymer anode for Li-ion batteries. <i>Scientific Reports</i> , 2014 , 4, 3684	4.9	40
142	In-situ electrochemical transmission electron microscopy for battery research. <i>Microscopy and Microanalysis</i> , 2014 , 20, 484-92	0.5	39
141	Insights into the Phase Formation Mechanism of [0.5Li ₂ MnO ₃ ·0.5LiNi _{0.5} Mn _{0.5} O ₂] Battery Materials. <i>Journal of the Electrochemical Society</i> , 2014 , 161, A1-A5	3.9	38
140	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

139	Biomimetic photocatalytic sulfonation of alkenes to access ketosulfones with single-atom iron site. <i>Green Chemistry</i> , 2020 , 22, 230-237	10	37
138	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
137	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
136	In Situ TEM Observations of Sn-Containing Silicon Nanowires Undergoing Reversible Pore Formation Due to Fast Lithiation/Delithiation Kinetics. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 21889-21895	3.8	35
135	Dual-Doping and Synergism toward High-Performance Seawater Electrolysis. <i>Advanced Materials</i> , 2021 , 33, e2101425	24	35
134	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
133	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
132	Electrocatalytic properties of poly(3,4-ethylenedioxythiophene) (PEDOT) in Li-O ₂ battery. <i>Electrochemistry Communications</i> , 2013 , 29, 63-66	5.1	34
131	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
130	Phthalocyanine Precursors To Construct Atomically Dispersed Iron Electrocatalysts. <i>ACS Catalysis</i> , 2019 , 9, 6252-6261	13.1	33
129	Chromium Oxynitride Electrocatalysts for Electrochemical Synthesis of Ammonia Under Ambient Conditions. <i>Small Methods</i> , 2019 , 3, 1800324	12.8	33
128	Sub-3 nm Intermetallic Ordered PtIn Clusters for Oxygen Reduction Reaction. <i>Advanced Science</i> , 2020 , 7, 1901279	13.6	32
127	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
126	Direct Mapping of Charge Distribution during Lithiation of Ge Nanowires Using Off-Axis Electron Holography. <i>Nano Letters</i> , 2016 , 16, 3748-53	11.5	31
125	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
124	Long lasting phosphorescence of Gd ₂ O ₂ S:Eu,Ti,Mg nanorods via a hydrothermal routine. <i>Journal of Alloys and Compounds</i> , 2008 , 465, 367-374	5.7	29
123	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
122	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

121	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
120	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
119	Interconnected Vertically Stacked 2D-MoS for Ultrastable Cycling of Rechargeable Li-Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 20762-20769	9.5	24
118	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
117	Strain accommodation by facile WO ₃ octahedral distortion and tilting during WO ₃ heteroepitaxy on SrTiO ₃ (001). <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 14253-8	9.5	24
116	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
115	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
114	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
113	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
112	Ultralow contact resistance at an epitaxial metal/oxide heterojunction through interstitial site doping. <i>Advanced Materials</i> , 2013 , 25, 4001-5	24	21
111	Probing the Na metal solid electrolyte interphase via cryo-transmission electron microscopy. <i>Nature Communications</i> , 2021 , 12, 3066	17.4	21
110	Creation and Ordering of Oxygen Vacancies at WO and Perovskite Interfaces. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 17480-17486	9.5	20
109	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
108	Additive stabilization of SEI on graphite observed using cryo-electron microscopy. <i>Energy and Environmental Science</i> , 2021 , 14, 4882-4889	35.4	20
107	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
106	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
105	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
104	Electron Transfer Governed Crystal Transformation of Tungsten Trioxide upon Li Ions Intercalation. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 24567-72	9.5	18

103	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
102	Resonant x-ray reflectivity study of perovskite oxide superlattices. <i>Applied Physics Letters</i> , 2011 , 99, 201908	30.8	18
101	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
100	Enhancing the lithiation rate of silicon nanowires by the inclusion of tin. <i>RSC Advances</i> , 2014 , 4, 42022-42028	3.7	17
99	Improving Pd ₂ Ni ₂ C fuel cell electrocatalysts through fluorination-driven rearrangements of local coordination environment. <i>Nature Energy</i> ,	62.3	17
98	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
97	The effect of interfacial charge transfer on ferromagnetism in perovskite oxide superlattices. <i>Journal of Applied Physics</i> , 2012 , 111, 013911	2.5	16
96	Electrocatalytic Reduction of Nitrate to Ammonia on Low-Cost Ultrathin CoOx Nanosheets. <i>ACS Catalysis</i> , 2021 , 11, 15135-15140	13.1	16
95	A Regioselectively Oxidized 2D Bi/BiOx Lateral Nano-Heterostructure for Hypoxic Photodynamic Therapy. <i>Advanced Materials</i> , 2021 , e2102562	24	16
94	Single-atom catalyst for high-performance methanol oxidation. <i>Nature Communications</i> , 2021 , 12, 5235	17.4	16
93	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
92	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
91	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
90	Tuning magnetic and transport properties through strain engineering in La _{0.7} Sr _{0.3} MnO ₃ /La _{0.5} Sr _{0.5} TiO ₃ superlattices. <i>Journal of Applied Physics</i> , 2012 , 111, 084906	2.5	14
89	Wavelength-Dependent Solar N Fixation into Ammonia and Nitrate in Pure Water. <i>Research</i> , 2020 , 2020, 3750314	7.8	14
88	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
87	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
86	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

85	Atomistic Conversion Reaction Mechanism of WO ₃ in Secondary Ion Batteries of Li, Na, and Ca. <i>Angewandte Chemie</i> , 2016 , 128, 6352-6355	3.6	13
84	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
83	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
82	Ultrahigh Malleability of the Lithiation-Induced Li _x Si Phase. <i>ACS Applied Energy Materials</i> , 2018 , 1, 4211-4220	6.2	11
81	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
80	Probing the failure mechanism of nanoscale LiFePO ₄ for Li-ion batteries. <i>Applied Physics Letters</i> , 2015 , 106, 203902	3.4	11
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