

Hua Kun Liu

List of Publications by Year in descending order

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Version: 2024-02-01

1,008
papers

69,668
citations

369

135
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1900

208
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1027
all docs

1027
docs citations

1027
times ranked

40486
citing authors

#	ARTICLE	IF	CITATIONS
1	Hierarchical Encapsulation and Rich sp^2 N Assist Sb_2Se_3 -Based Conversion Alloying Anode for Long-Life Sodium and Potassium Ion Storage. <i>Energy and Environmental Materials</i> , 2023, 6, .	12.8	24
2	Novel Li_3VO_4 Nanostructures Grown in Highly Efficient Microwave Irradiation Strategy and Their In-Situ Lithium Storage Mechanism. <i>Advanced Science</i> , 2022, 9, e2103493.	11.2	23
3	The Emerging Electrochemical Activation Tactic for Aqueous Energy Storage: Fundamentals, Applications, and Future. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	34
4	Electrolytes/Interphases: Enabling Distinguishable Sulfur Redox Processes in Room-Temperature Sodium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	29
5	Continuous Carbon Channels Enable Full Na Ion Accessibility for Superior Room-Temperature Na-S Batteries. <i>Advanced Materials</i> , 2022, 34, e2108363.	21.0	49
6	Ice-Assisted Synthesis of Highly Crystallized Prussian Blue Analogues for All-Climate and Long-Calendar-Life Sodium Ion Batteries. <i>Nano Letters</i> , 2022, 22, 1302-1310.	9.1	68
7	Streamline Sulfur Redox Reactions to Achieve Efficient Room-Temperature Sodium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	38
8	Streamline Sulfur Redox Reactions to Achieve Efficient Room-Temperature Sodium-Sulfur Batteries. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	3
9	Regulating the Electronic Configuration of Supported Iron Nanoparticles for Electrochemical Catalytic Nitrogen Fixation. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	16
10	Prussian Blue Analogues for Sodium Ion Batteries: Past, Present, and Future. <i>Advanced Materials</i> , 2022, 34, e2108384.	21.0	252
11	Recent Progress on Fe-Based Single/Dual-Atom Catalysts for Zn-Air Batteries. <i>Small</i> , 2022, 18, e2106635.	10.0	47
12	Effect of Eliminating Water in Prussian Blue Cathode for Sodium Ion Batteries. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	66
13	The typical structural evolution of silicon anode. <i>Cell Reports Physical Science</i> , 2022, 3, 100811.	5.6	10
14	Nanostructure Engineering Strategies of Cathode Materials for Room-Temperature Na-S Batteries. <i>ACS Nano</i> , 2022, 16, 5103-5130.	14.6	27
15	Recent progress on three-dimensional nanoarchitecture anode materials for lithium/sodium storage. <i>Journal of Materials Science and Technology</i> , 2022, 119, 167-181.	10.7	26
16	Nitrogen and Oxygen Co-Doped Porous Hard Carbon Nanospheres with Core-Shell Architecture as Anode Materials for Superior Potassium Ion Storage. <i>Small</i> , 2022, 18, e2104296.	10.0	33
17	CoS_2 Nanoparticles Anchored on MoS_2 Nanorods As a Superior Bifunctional Electrocatalyst Boosting Li_2O_2 Heteroepitaxial Growth for Rechargeable Li_2O_2 Batteries. <i>Small</i> , 2022, 18, e2105752.	10.0	20
18	An in-situ generated Bi-based sodiophilic substrate with high structural stability for high-performance sodium metal batteries. <i>Journal of Energy Chemistry</i> , 2022, 71, 595-603.	12.9	7

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19	Stable sodium metal anodes enabled by an in-situ generated mixed-ion/electron-conducting interface. <i>Chemical Engineering Journal</i> , 2022, 446, 136917.	12.7	5
20	Boron doping-induced interconnected assembly approach for mesoporous silicon oxycarbide architecture. <i>National Science Review</i> , 2021, 8, nwa152.	9.5	77
21	Effects of carbon on electrochemical performance of red phosphorus (P) and carbon composite as anode for sodium ion batteries. <i>Journal of Materials Science and Technology</i> , 2021, 68, 140-146.	10.7	20
22	Efficient separators with fast Li-ion transfer and high polysulfide entrapment for superior lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , 2021, 408, 127348.	12.7	25
23	Sustainable S cathodes with synergic electrocatalysis for room-temperature Na ⁺ /S batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 566-574.	10.3	39
24	Stable Sodium Metal Anode Enabled by an Interface Protection Layer Rich in Organic Sulfide Salt. <i>Nano Letters</i> , 2021, 21, 619-627.	9.1	58
25	Li ₂ S-Based Li ⁺ Ion Sulfur Batteries: Progress and Prospects. <i>Small</i> , 2021, 17, e1903934.	10.0	41
26	An in-depth insight of a highly reversible and dendrite-free Zn metal anode in an hybrid electrolyte. <i>Journal of Materials Chemistry A</i> , 2021, 9, 4253-4261.	10.3	67
27	Regulation methods for the Zn/electrolyte interphase and the effectiveness evaluation in aqueous Zn-ion batteries. <i>Energy and Environmental Science</i> , 2021, 14, 5669-5689.	30.8	314
28	Stable sodium metal anodes with a high utilization enabled by an interfacial layer composed of yolk-shell nanoparticles. <i>Journal of Materials Chemistry A</i> , 2021, 9, 13200-13208.	10.3	21
29	Prelithiation: A Crucial Strategy for Boosting the Practical Application of Next-Generation Lithium Ion Battery. <i>ACS Nano</i> , 2021, 15, 2197-2218.	14.6	192
30	Tunable Electrocatalytic Behavior of Sodiated MoS ₂ Active Sites toward Efficient Sulfur Redox Reactions in Room-Temperature Na ⁺ /S Batteries. <i>Advanced Materials</i> , 2021, 33, e2100229.	21.0	66
31	Bi Nanoparticles Embedded in 2D Carbon Nanosheets as an Interfacial Layer for Advanced Sodium Metal Anodes. <i>Small</i> , 2021, 17, e2007578.	10.0	28
32	Facile Fabrication of Ag Nanocrystals Encapsulated in Nitrogen-Doped Fibrous Carbon as an Efficient Catalyst for Lithium Oxygen Batteries. <i>Energy and Environmental Materials</i> , 2021, 4, 239-245.	12.8	20
33	An Emerging Energy Storage System: Advanced Na ⁺ /Se Batteries. <i>ACS Nano</i> , 2021, 15, 5876-5903.	14.6	56
34	Carbonaceous Hosts for Sulfur Cathode in Alkali-Metal/S (Alkali Metal = Lithium, Sodium, Potassium) Batteries. <i>Small</i> , 2021, 17, e2006504.	10.0	17
35	Atomic Cobalt Vacancy Cluster Enabling Optimized Electronic Structure for Efficient Water Splitting. <i>Advanced Functional Materials</i> , 2021, 31, 2101797.	14.9	26
36	Understanding Sulfur Redox Mechanisms in Different Electrolytes for Room-Temperature Na ⁺ /S Batteries. <i>Nano-Micro Letters</i> , 2021, 13, 121.	27.0	31

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37	Atomic Structural Evolution of Single-Layer Pt Clusters as Efficient Electrocatalysts. <i>Small</i> , 2021, 17, e2100732.	10.0	26
38	Architecting Freestanding Sulfur Cathodes for Superior Room-Temperature Na-S Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2102280.	14.9	46
39	Understanding the Effects of the Low-Concentration Electrolyte on the Performance of High-Energy-Density Li-S Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 28405-28414.	8.0	19
40	Accelerated Polysulfide Redox in Binder-Free Li_{2}S Cathodes Promises High-Energy-Density Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2100957.	19.5	35
41	Boosting electrochemical kinetics of S cathodes for room temperature Na/S batteries. <i>Matter</i> , 2021, 4, 1768-1800.	10.0	39
42	Dendrites-Free Zn Metal Anodes Enabled by an Artificial Protective Layer Filled with 2D Anionic Nanosheets. <i>Small Methods</i> , 2021, 5, e2100650.	8.6	50
43	Electrochemical release of catalysts in nanoreactors for solid sulfur redox reactions in room-temperature sodium-sulfur batteries. <i>Cell Reports Physical Science</i> , 2021, 2, 100539.	5.6	20
44	Atomically dispersed S-Fe-N4 for fast kinetics sodium-sulfur batteries via a dual function mechanism. <i>Cell Reports Physical Science</i> , 2021, 2, 100531.	5.6	31
45	Electrocatalytic-driven compensation for sodium ion pouch cell with high energy density and long lifespan. <i>Energy Storage Materials</i> , 2021, 39, 54-59.	18.0	11
46	Recent Advances and Perspective on Electrochemical Ammonia Synthesis under Ambient Conditions. <i>Small Methods</i> , 2021, 5, e2100460.	8.6	33
47	Red phosphorus: A rising star of anode materials for advanced K-ion batteries. <i>Energy Storage Materials</i> , 2021, 42, 193-208.	18.0	22
48	Coupling effects of thermodynamics in multiple ion co-precipitation for precursors towards a layered oxide cathode. <i>Materials Advances</i> , 2021, 2, 3752-3759.	5.4	1
49	Copper phosphide as a promising anode material for potassium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 8378-8385.	10.3	16
50	Progress and Challenges for All-Solid-State Sodium Batteries. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2000057.	5.8	49
51	Activating Inert Surface Pt Single Atoms via Subsurface Doping for Oxygen Reduction Reaction. <i>Nano Letters</i> , 2021, 21, 7970-7978.	9.1	33
52	Processing Rusty Metals into Versatile Prussian Blue for Sustainable Energy Storage. <i>Advanced Energy Materials</i> , 2021, 11, 2102356.	19.5	41
53	The Dual Functions of Defect-Rich Carbon Nanotubes as Both Conductive Matrix and Efficient Mediator for Li_{2}S Batteries. <i>Small</i> , 2021, 17, e2103535.	10.0	23
54	Highly Stable Lithium/Sodium Metal Batteries with High Utilization Enabled by a Holey Two-Dimensional N-Doped $\text{TiNb}_{2}\text{O}_{7}$ Host. <i>Nano Letters</i> , 2021, 21, 10453-10461.	9.1	18

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55	Remedies for Polysulfide Dissolution in Room-Temperature Sodium-Sulfur Batteries. <i>Advanced Materials</i> , 2020, 32, e1903952.	21.0	96
56	Anode Materials: Realizing Reversible Conversion-Alloying of Sb(V) in Polyantimonic Acid for Fast and Durable Lithium- and Potassium-Ion Storage (<i>Adv. Energy Mater.</i> 1/2020). <i>Advanced Energy Materials</i> , 2020, 10, 2070002.	19.5	1
57	Uniform Polypyrrole Layer-Coated Sulfur/Graphene Aerogel via the Vapor-Phase Deposition Technique as the Cathode Material for Li-S Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 5958-5967.	8.0	29
58	An engineered self-supported electrocatalytic cathode and dendrite-free composite anode based on 3D double-carbon hosts for advanced Li-SeS ₂ batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 2969-2983.	10.3	59
59	Realizing Reversible Conversion-Alloying of Sb(V) in Polyantimonic Acid for Fast and Durable Lithium- and Potassium-Ion Storage. <i>Advanced Energy Materials</i> , 2020, 10, 1903119.	19.5	57
60	Stress Distortion Restraint to Boost the Sodium Ion Storage Performance of a Novel Binary Hexacyanoferrate. <i>Advanced Energy Materials</i> , 2020, 10, 1903006.	19.5	67
61	General Synthesis of Single-Atom Catalysts for Hydrogen Evolution Reactions and Room-Temperature Na-S Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 22171-22178.	13.8	80
62	Multiregion Janus-Featured Cobalt Phosphide-Cobalt Composite for Highly Reversible Room-Temperature Sodium-Sulfur Batteries. <i>ACS Nano</i> , 2020, 14, 10284-10293.	14.6	81
63	Electron Delocalization and Dissolution-Restraint in Vanadium Oxide Superlattices to Boost Electrochemical Performance of Aqueous Zinc-Ion Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2001852.	19.5	125
64	Confining Ultrathin 2D Superlattices in Mesoporous Hollow Spheres Renders Ultrafast and High-Capacity Na-Ion Storage. <i>Advanced Energy Materials</i> , 2020, 10, 2001033.	19.5	25
65	Potassium Nickel Iron Hexacyanoferrate as Ultra-Long-Life Cathode Material for Potassium-Ion Batteries with High Energy Density. <i>ACS Nano</i> , 2020, 14, 9807-9818.	14.6	116
66	General Synthesis of Single-Atom Catalysts for Hydrogen Evolution Reactions and Room-Temperature Na-S Batteries. <i>Angewandte Chemie</i> , 2020, 132, 22355-22362.	2.0	62
67	Confined Fe-Cu Clusters as Sub-Nanometer Reactors for Efficiently Regulating the Electrochemical Nitrogen Reduction Reaction. <i>Advanced Materials</i> , 2020, 32, e2004382.	21.0	152
68	Solid Electrolyte Interphases on Sodium Metal Anodes. <i>Advanced Functional Materials</i> , 2020, 30, 2004891.	14.9	154
69	Alkali-Metal Sulfide as Cathodes toward Safe and High-Capacity Metal (M = Li, Na, K) Sulfur Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2001764.	19.5	29
70	Tailoring MXene-Based Materials for Sodium-Ion Storage: Synthesis, Mechanisms, and Applications. <i>Electrochemical Energy Reviews</i> , 2020, 3, 766-792.	25.5	86
71	Porosity quasi-graphitic carbon sheets for unprecedented sodium storage. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 2443-2450.	6.0	1
72	Core-Shell C@Sb Nanoparticles as a Nucleation Layer for High-Performance Sodium Metal Anodes. <i>Nano Letters</i> , 2020, 20, 4464-4471.	9.1	75

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73	Sodium Sulfur Batteries: Remedies for Polysulfide Dissolution in Room-Temperature Sodium Sulfur Batteries (Adv. Mater. 18/2020). Advanced Materials, 2020, 32, 2070145.	21.0	2
74	Heterostructured Mo ₂ C/MoO ₂ as highly efficient catalyst for rechargeable Li-O ₂ battery. Journal of Power Sources, 2020, 470, 228317.	7.8	23
75	Anodic Oxidation Strategy toward Structure-Optimized V ₂ O ₃ Cathode Electrolyte Regulation for Zn-Ion Storage. ACS Nano, 2020, 14, 7328-7337.	14.6	229
76	Mesoporous Nitrogen-Doped Carbon Nanospheres as Sulfur Matrix and a Novel Chelate-Modified Separator for High-Performance Room-Temperature Na-S Batteries. Small, 2020, 16, e1907464.	10.0	57
77	Interfacial and Electronic Modulation via Localized Sulfurization for Boosting Lithium Storage Kinetics. Advanced Materials, 2020, 32, e2000151.	21.0	98
78	A Cation and Anion Dual Doping Strategy for the Elevation of Titanium Redox Potential for High-Power Sodium-Ion Batteries. Angewandte Chemie, 2020, 132, 12174-12181.	2.0	20
79	Transition metal based battery-type electrodes in hybrid supercapacitors: A review. Energy Storage Materials, 2020, 28, 122-145.	18.0	413
80	Reversible structural evolution of sodium-rich rhombohedral Prussian blue for sodium-ion batteries. Nature Communications, 2020, 11, 980.	12.8	283
81	Super Kinetically Pseudocapacitive MnCo ₂ S ₄ Nanourchins toward High-Rate and Highly Stable Sodium-Ion Storage. Advanced Functional Materials, 2020, 30, 1909702.	14.9	47
82	A High-Kinetics Sulfur Cathode with a Highly Efficient Mechanism for Superior Room-Temperature Na-S Batteries. Advanced Materials, 2020, 32, e1906700.	21.0	126
83	Dendrite-Free Sodium Metal Anodes Enabled by a Sodium Benzenedithiolate-Rich Protection Layer. Angewandte Chemie - International Edition, 2020, 59, 6596-6600.	13.8	89
84	Dendrite-Free Sodium Metal Anodes Enabled by a Sodium Benzenedithiolate-Rich Protection Layer. Angewandte Chemie, 2020, 132, 6658-6662.	2.0	33
85	Self-assembling RuO ₂ nanogranulates with few carbon layers as an interconnected nanoporous structure for lithium-oxygen batteries. Chemical Communications, 2020, 56, 7253-7256.	4.1	5
86	A Cation and Anion Dual Doping Strategy for the Elevation of Titanium Redox Potential for High-Power Sodium-Ion Batteries. Angewandte Chemie - International Edition, 2020, 59, 12076-12083.	13.8	78
87	Three-Dimensional Electronic Network Assisted by TiN Conductive Pillars and Chemical Adsorption to Boost the Electrochemical Performance of Red Phosphorus. ACS Nano, 2020, 14, 4609-4617.	14.6	31
88	Enhanced Potassium Ion Battery by Inducing Interlayer Anionic Ligands in MoS _{1.5} Se _{0.5} Nanosheets with Exploration of the Mechanism. Advanced Energy Materials, 2020, 10, 1904162.	19.5	48
89	A conductive polymer derived N-doped carbon nanofiber supported Li ₂ S coating layer for Li-S batteries with high mass loading. Journal of Alloys and Compounds, 2020, 828, 154264.	5.5	9
90	Understanding rhombohedral iron hexacyanoferrate with three different sodium positions for high power and long stability sodium-ion battery. Energy Storage Materials, 2020, 30, 42-51.	18.0	62

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91	Electrocatalyzing S Cathodes via Multisulfiphilic Sites for Superior Room-Temperature Sodium-Sulfur Batteries. ACS Nano, 2020, 14, 7259-7268.	14.6	100
92	Surface Stabilization of O3-type Layered Oxide Cathode to Protect the Anode of Sodium Ion Batteries for Superior Lifespan. IScience, 2019, 19, 244-254.	4.1	29
93	Everlasting Living and Breathing Gyroid 3D Network in Si@SiOx/C Nanoarchitecture for Lithium Ion Battery. ACS Nano, 2019, 13, 9607-9619.	14.6	165
94	Bio-Derived Hierarchical Multicore-Shell Fe ₂ N-Nanoparticle-Impregnated N-Doped Carbon Nanofiber Bundles: A Host Material for Lithium-/Potassium-Ion Storage. Nano-Micro Letters, 2019, 11, 56.	27.0	47
95	A new reflowing strategy based on lithiophilic substrates towards smooth and stable lithium metal anodes. Journal of Materials Chemistry A, 2019, 7, 18126-18134.	10.3	32
96	Binder-Free 3D Integrated Ni@Ni ₃ Pt Air Electrode for Zn-Air Batteries. Global Challenges, 2019, 3, 1900027.	3.6	11
97	Morphology tuning of inorganic nanomaterials grown by precipitation through control of electrolytic dissociation and supersaturation. Nature Chemistry, 2019, 11, 695-701.	13.6	86
98	Catalytic Activity Boosting of Nickel Sulfide toward Oxygen Evolution Reaction via Confined Overdoping Engineering. ACS Applied Energy Materials, 2019, 2, 5363-5372.	5.1	48
99	Metallic-State SnS ₂ Nanosheets with Expanded Lattice Spacing for High-Performance Sodium-Ion Batteries. ChemSusChem, 2019, 12, 4046-4053.	6.8	30
100	Chemical bonding boosts nano-rose-like MoS ₂ anchored on reduced graphene oxide for superior potassium-ion storage. Nano Energy, 2019, 63, 103868.	16.0	153
101	2D Titania-Carbon Superlattices Vertically Encapsulated in 3D Hollow Carbon Nanospheres Embedded with OD TiO ₂ Quantum Dots for Exceptional Sodium-Ion Storage. Angewandte Chemie - International Edition, 2019, 58, 14125-14128.	13.8	47
102	Construction of Structure-Tunable Si@Void@C Anode Materials for Lithium-Ion Batteries through Controlling the Growth Kinetics of Resin. ACS Nano, 2019, 13, 12219-12229.	14.6	119
103	2D Titania-Carbon Superlattices Vertically Encapsulated in 3D Hollow Carbon Nanospheres Embedded with OD TiO ₂ Quantum Dots for Exceptional Sodium-Ion Storage. Angewandte Chemie, 2019, 131, 14263-14266.	2.0	13
104	Targeted Synergy between Adjacent Co Atoms on Graphene Oxide as an Efficient New Electrocatalyst for Li-CO ₂ Batteries. Advanced Functional Materials, 2019, 29, 1904206.	14.9	86
105	Nickel sulfide nanocrystals on nitrogen-doped porous carbon nanotubes with high-efficiency electrocatalysis for room-temperature sodium-sulfur batteries. Nature Communications, 2019, 10, 4793.	12.8	147
106	Atomically dispersed metal dimer species with selective catalytic activity for nitrogen electrochemical reduction. Journal of Materials Chemistry A, 2019, 7, 22242-22247.	10.3	109
107	Phosphorus-Modulation-Triggered Surface Disorder in Titanium Dioxide Nanocrystals Enables Exceptional Sodium-Storage Performance. Angewandte Chemie, 2019, 131, 4062-4066.	2.0	11
108	Phosphorus-Modulation-Triggered Surface Disorder in Titanium Dioxide Nanocrystals Enables Exceptional Sodium-Storage Performance. Angewandte Chemie - International Edition, 2019, 58, 4022-4026.	13.8	56

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109	General "Electron-Assisted Strategy for Ir, Pt, Ru, Pd, Fe, Ni Single-Atom Electrocatalysts with Bifunctional Active Sites for Highly Efficient Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11868-11873.	13.8	229
110	General "Electron-Assisted Strategy for Ir, Pt, Ru, Pd, Fe, Ni Single-Atom Electrocatalysts with Bifunctional Active Sites for Highly Efficient Water Splitting. <i>Angewandte Chemie</i> , 2019, 131, 11994-11999.	2.0	28
111	Design strategies for developing non-precious metal based bi-functional catalysts for alkaline electrolyte based zinc-air batteries. <i>Materials Horizons</i> , 2019, 6, 1812-1827.	12.2	79
112	Exploration of the sodium ion ordered transfer mechanism in a MoSe ₂ @Graphene composite for superior rate and lifespan performance. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13736-13742.	10.3	23
113	Strategies Toward Stable Nonaqueous Alkali Metal-O ₂ Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1900464.	19.5	35
114	Energy storage in Oceania. <i>Energy Storage Materials</i> , 2019, 20, 176-187.	18.0	20
115	<i>In situ</i> incorporation of nanostructured antimony in an N-doped carbon matrix for advanced sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 12842-12850.	10.3	25
116	Engineering the Distribution of Carbon in Silicon Oxide Nanospheres at the Atomic Level for Highly Stable Anodes. <i>Angewandte Chemie</i> , 2019, 131, 6741-6745.	2.0	16
117	Engineering the Distribution of Carbon in Silicon Oxide Nanospheres at the Atomic Level for Highly Stable Anodes. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6669-6673.	13.8	209
118	Constructing the best symmetric full K-ion battery with the NASICON-type K ₃ V ₂ (PO ₄) ₃ . <i>Nano Energy</i> , 2019, 60, 432-439.	16.0	67
119	Chemical Properties, Structural Properties, and Energy Storage Applications of Prussian Blue Analogues. <i>Small</i> , 2019, 15, e1900470.	10.0	226
120	Understanding the Reaction Chemistry during Charging in Aprotic Lithium-Oxygen Batteries: Existing Problems and Solutions. <i>Advanced Materials</i> , 2019, 31, e1804587.	21.0	254
121	The Quasi-Pt Allotrope Catalyst: Hollow PtCo@Single-Atom Pt on Nitrogen-Doped Carbon toward Superior Oxygen Reduction. <i>Advanced Functional Materials</i> , 2019, 29, 1807340.	14.9	97
122	Fabrication of Superior Single-Atom Catalysts toward Diverse Electrochemical Reactions. <i>Small Methods</i> , 2019, 3, 1800497.	8.6	99
123	Metallic state two-dimensional holey-structured Co ₃ FeN nanosheets as stable and bifunctional electrocatalysts for zinc-air batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 26549-26556.	10.3	30
124	Interpreting Abnormal Charge-Discharge Plateau Migration in CuxS during Long-Term Cycling. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 3961-3970.	8.0	31
125	Three-Dimensional Porous Cobalt Phosphide Nanocubes Encapsulated in a Graphene Aerogel as an Advanced Anode with High Coulombic Efficiency for High-Energy Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 5373-5379.	8.0	78
126	Borohydride-Scaffolded Li/Na/Mg Fast Ionic Conductors for Promising Solid-State Electrolytes. <i>Advanced Materials</i> , 2019, 31, e1803533.	21.0	105

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127	Synthesis of methotrexate-loaded tantalum pentoxide@poly(acrylic acid) nanoparticles for controlled drug release applications. <i>Journal of Colloid and Interface Science</i> , 2019, 538, 286-296.	9.4	34
128	Graphene-scroll-sheathed \pm -MnS coaxial nanocables embedded in N, S Co-doped graphene foam as 3D hierarchically ordered electrodes for enhanced lithium storage. <i>Energy Storage Materials</i> , 2019, 16, 46-55.	18.0	136
129	Review of Electrolytes in Nonaqueous Lithium@Oxygen Batteries. <i>Advanced Sustainable Systems</i> , 2018, 2, 1700183.	5.3	46
130	Synthesis and electrochemical properties of $\text{NH}_4\text{FePO}_4 \cdot \text{H}_2\text{O}$ as a novel anode material. <i>Materials Letters</i> , 2018, 225, 69-72.	2.6	6
131	A high rate capability and long lifespan symmetric sodium-ion battery system based on a bipolar material $\text{Na}_2\text{LiV}_2(\text{PO}_4)_3/\text{C}$. <i>Journal of Materials Chemistry A</i> , 2018, 6, 9962-9970.	10.3	38
132	An Integrated Free-standing Flexible Electrode with Holey-structured 2D Bimetallic Phosphide Nanosheets for Sodium-ion Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1801016.	14.9	59
133	Remarkable Enhancement in Sodium-ion Kinetics of $\text{NaFe}_2(\text{CN})_6$ by Chemical Bonding with Graphene. <i>Small Methods</i> , 2018, 2, 1700346.	8.6	40
134	Preface for @Lithium ion batteries and beyond@. <i>APL Materials</i> , 2018, 6, 047401.	5.1	1
135	Structural design of anode materials for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 6183-6205.	10.3	127
136	Free-standing sulfur-polypyrrole cathode in conjunction with polypyrrole-coated separator for flexible Li-S batteries. <i>Energy Storage Materials</i> , 2018, 13, 312-322.	18.0	105
137	Two-dimensional nanostructures for sodium-ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2018, 6, 3284-3303.	10.3	224
138	A flexible 3D nitrogen-doped carbon foam@CNTs hybrid hosting TiO_2 nanoparticles as free-standing electrode for ultra-long cycling lithium-ion batteries. <i>Journal of Power Sources</i> , 2018, 379, 10-19.	7.8	48
139	Active-Site-Enriched Iron-Doped Nickel/Cobalt Hydroxide Nanosheets for Enhanced Oxygen Evolution Reaction. <i>ACS Catalysis</i> , 2018, 8, 5382-5390.	11.2	311
140	High performance $\text{MnO}@\text{C}$ microcages with a hierarchical structure and tunable carbon shell for efficient and durable lithium storage. <i>Journal of Materials Chemistry A</i> , 2018, 6, 9723-9736.	10.3	212
141	Three-dimensional carbon frameworks enabling MoS_2 as anode for dual ion batteries with superior sodium storage properties. <i>Energy Storage Materials</i> , 2018, 15, 22-30.	18.0	125
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1001	Surface-modified Mg/Ni -type negative electrode materials for Ni-MH battery. , 0, , .		3
1002	The kinetics of PbSO_4/Pb on Pb-Ca-Sn-Al grid alloys with bismuth additions at different temperature. , 0, , .		0
1003	Studies on the electrochemical impedance spectroscopy of Zr-based Laves phase metal hydride electrodes. , 0, , .		1
1004	Development of high energy nickel-metal hydride cell. , 0, , .		1
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