Shuquan Liang

List of Publications by Year
in descending order

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		3731	6300
278	28,544	89	158
papers	citations	h-index	g-index

280	280	280	13711
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Recent Advances in Aqueous Zinc-Ion Batteries. ACS Energy Letters, 2018, 3, 2480-2501.	17.4	1,553
2	Issues and opportunities facing aqueous zinc-ion batteries. Energy and Environmental Science, 2019, 12, 3288-3304.	30.8	1,313
3	Manipulating the ion-transfer kinetics and interface stability for high-performance zinc metal anodes. Energy and Environmental Science, 2020, 13, 503-510.	30.8	828
4	Li⁺ intercalated V₂O₅Â·nH₂O with enlarged layer spacing and fast ion diffusion as an aqueous zinc-ion battery cathode. Energy and Environmental Science, 2018, 11, 3157-3162.	30.8	785
5	Suppressing Manganese Dissolution in Potassium Manganate with Rich Oxygen Defects Engaged Highâ€Energyâ€Density and Durable Aqueous Zincâ€Ion Battery. Advanced Functional Materials, 2019, 29, 1808375.	14.9	568
6	Fundamentals and perspectives in developing zinc-ion battery electrolytes: a comprehensive review. Energy and Environmental Science, 2020, 13, 4625-4665.	30.8	497
7	Issues and Future Perspective on Zinc Metal Anode for Rechargeable Aqueous Zincâ€Ion Batteries. Energy and Environmental Materials, 2020, 3, 146-159.	12.8	475
8	A Sieveâ€Functional and Uniformâ€Porous Kaolin Layer toward Stable Zinc Metal Anode. Advanced Functional Materials, 2020, 30, 2000599.	14.9	449
9	Surfaceâ€Preferred Crystal Plane for a Stable and Reversible Zinc Anode. Advanced Materials, 2021, 33, e2100187.	21.0	432
10	Potassium vanadates with stable structure and fast ion diffusion channel as cathode for rechargeable aqueous zinc-ion batteries. Nano Energy, 2018, 51, 579-587.	16.0	425
11	Metal Organic Framework-Templated Synthesis of Bimetallic Selenides with Rich Phase Boundaries for Sodium-Ion Storage and Oxygen Evolution Reaction. ACS Nano, 2019, 13, 5635-5645.	14.6	400
12	A review on recent developments and challenges of cathode materials for rechargeable aqueous Zn-ion batteries. Journal of Materials Chemistry A, 2019, 7, 18209-18236.	10.3	387
13	Design Strategies for Highâ€Energyâ€Density Aqueous Zinc Batteries. Angewandte Chemie - International Edition, 2022, 61, .	13.8	383
14	Electrolyte Strategies toward Better Zinc-Ion Batteries. ACS Energy Letters, 2021, 6, 1015-1033.	17.4	376
15	Observation of Pseudocapacitive Effect and Fast Ion Diffusion in Bimetallic Sulfides as an Advanced Sodiumâ€Ion Battery Anode. Advanced Energy Materials, 2018, 8, 1703155.	19.5	374
16	Transition metal ion-preintercalated V2O5 as high-performance aqueous zinc-ion battery cathode with broad temperature adaptability. Nano Energy, 2019, 61, 617-625.	16.0	340
17	Anode Materials for Aqueous Zinc Ion Batteries: Mechanisms, Properties, and Perspectives. ACS Nano, 2020, 14, 16321-16347.	14.6	340
18	Investigation of V₂O₅ as a low-cost rechargeable aqueous zinc ion battery cathode. Chemical Communications, 2018, 54, 4457-4460.	4.1	330

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19	Fundamentals and perspectives of electrolyte additives for aqueous zinc-ion batteries. Energy Storage Materials, 2021, 34, 545-562.	18.0	330
20	Facile synthesized nanorod structured vanadium pentoxide for high-rate lithium batteries. Journal of Materials Chemistry, 2010, 20, 9193.	6.7	316
21	Spatially homogeneous copper foam as surface dendrite-free host for zinc metal anode. Chemical Engineering Journal, 2020, 379, 122248.	12.7	308
22	Engineering the interplanar spacing of ammonium vanadates as a high-performance aqueous zinc-ion battery cathode. Journal of Materials Chemistry A, 2019, 7, 940-945.	10.3	291
23	Templateâ€Free Synthesis of VO₂ Hollow Microspheres with Various Interiors and Their Conversion into V₂O₅ for Lithiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2013, 52, 2226-2230.	13.8	275
24	V2O5 Nanospheres with Mixed Vanadium Valences as High Electrochemically Active Aqueous Zinc-Ion Battery Cathode. Nano-Micro Letters, 2019, 11, 25.	27.0	274
25	Pilotaxitic Na1.1V3O7.9 nanoribbons/graphene as high-performance sodium ion battery and aqueous zinc ion battery cathode. Energy Storage Materials, 2018, 13, 168-174.	18.0	271
26	Electrochemically induced cationic defect in MnO intercalation cathode for aqueous zinc-ion battery. Energy Storage Materials, 2020, 24, 394-401.	18.0	270
27	Binder-free stainless steel@Mn₃O₄ nanoflower composite: a high-activity aqueous zinc-ion battery cathode with high-capacity and long-cycle-life. Journal of Materials Chemistry A, 2018, 6, 9677-9683.	10.3	269
28	Ion-confinement effect enabled by gel electrolyte for highly reversible dendrite-free zinc metal anode. Energy Storage Materials, 2020, 27, 109-116.	18.0	262
29	Synthesis of Mo2N nanolayer coated MoO2 hollow nanostructures as high-performance anode materials for lithium-ion batteries. Energy and Environmental Science, 2013, 6, 2691.	30.8	246
30	Zn/MnO2 battery chemistry with dissolution-deposition mechanism. Materials Today Energy, 2020, 16, 100396.	4.7	245
31	Nitrogen-Doped Yolkâ€“Shell-Structured CoSe/C Dodecahedra for High-Performance Sodium Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 3624-3633.	8.0	244
32	Mechanistic Insights of Zn²⁺ Storage in Sodium Vanadates. Advanced Energy Materials, 2018, 8, 1801819.	19.5	225
33	MOFs nanosheets derived porous metal oxide-coated three-dimensional substrates for lithium-ion battery applications. Nano Energy, 2016, 26, 57-65.	16.0	224
34	pHâ€Buffer Contained Electrolyte for Selfâ€Adjusted Cathodeâ€Free Znâ€“MnO₂ Batteries with Coexistence of Dual Mechanisms. Small Structures, 2021, 2, 2100119.	12.0	196
35	Interfacial <scp>adsorptionâ€“insertion</scp> mechanism induced by phase boundary toward better aqueous <scp>Znâ€ion</scp> battery. InformaÄnÃ-MateriÃ¡ly, 2021, 3, 1028-1036.	17.3	194
36	Cathode Interfacial Layer Formation via in Situ Electrochemically Charging in Aqueous Zinc-Ion Battery. ACS Nano, 2019, 13, 13456-13464.	14.6	184

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37	Oxygen Defects in Î²-MnO2 Enabling High-Performance Rechargeable Aqueous Zinc/Manganese Dioxide Battery. IScience, 2020, 23, 100797.	4.1	184
38	Caging Na₃V₂(PO₄)₂F₃ Microcubes in Crossâ€Linked Graphene Enabling Ultrafast Sodium Storage and Longâ€Term Cycling. Advanced Science, 2018, 5, 1800680.	11.2	182
39	Interfacial Engineering Strategy for High-Performance Zn Metal Anodes. Nano-Micro Letters, 2022, 14, 6.	27.0	177
40	Integrated â€˜all-in-oneâ€™ strategy to stabilize zinc anodes for high-performance zinc-ion batteries. National Science Review, 2022, 9, nwab177.	9.5	174
41	Nano-structured Li3V2(PO4)3/carbon composite for high-rate lithium-ion batteries. Electrochemistry Communications, 2010, 12, 1674-1677.	4.7	173
42	Encapsulation of CoS_x Nanocrystals into N/S Coâ€Doped Honeycombâ€Like 3D Porous Carbon for Highâ€Performance Lithium Storage. Advanced Science, 2018, 5, 1800829.	11.2	172
43	Tuning Zn2+ coordination tunnel by hierarchical gel electrolyte for dendrite-free zinc anode. Science Bulletin, 2022, 67, 955-962.	9.0	172
44	Two-dimensional hybrid nanosheets of few layered MoSe₂ on reduced graphene oxide as anodes for long-cycle-life lithium-ion batteries. Journal of Materials Chemistry A, 2016, 4, 15302-15308.	10.3	167
45	Observation of combination displacement/intercalation reaction in aqueous zinc-ion battery. Energy Storage Materials, 2019, 18, 10-14.	18.0	165
46	Ultrathin Li3VO4 nanoribbon/graphene sandwich-like nanostructures with ultrahigh lithium ion storage properties. Nano Energy, 2015, 12, 709-724.	16.0	164
47	Synthesis of Hierarchical Three-Dimensional Vanadium Oxide Microstructures as High-Capacity Cathode Materials for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2012, 4, 3874-3879.	8.0	157
48	Templateâ€Assisted Formation of Rattleâ€type V₂O₅ Hollow Microspheres with Enhanced Lithium Storage Properties. Advanced Functional Materials, 2013, 23, 5669-5674.	14.9	154
49	Nanoflake-constructed porous Na3V2(PO4)3/C hierarchical microspheres as a bicontinuous cathode for sodium-ion batteries applications. Nano Energy, 2019, 60, 312-323.	16.0	154
50	Inorganic Colloidal Electrolyte for Highly Robust Zinc-Ion Batteries. Nano-Micro Letters, 2021, 13, 69.	27.0	152
51	Homogeneous Deposition of Zinc on Three-Dimensional Porous Copper Foam as a Superior Zinc Metal Anode. ACS Sustainable Chemistry and Engineering, 2019, 7, 17737-17746.	6.7	151
52	Metalâ€“organic framework-templated two-dimensional hybrid bimetallic metal oxides with enhanced lithium/sodium storage capability. Journal of Materials Chemistry A, 2017, 5, 13983-13993.	10.3	150
53	Simultaneous Cationic and Anionic Redox Reactions Mechanism Enabling Highâ€Rate Longâ€Life Aqueous Zincâ€Ion Battery. Advanced Functional Materials, 2019, 29, 1905267.	14.9	140
54	Simultaneous regulation of cations and anions in an electrolyte for high-capacity, high-stability aqueous zincâ€“vanadium batteries. EScience, 2022, 2, 209-218.	41.6	138

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55	Template-free synthesis of ultra-large V2O5 nanosheets with exceptional small thickness for high-performance lithium-ion batteries. Nano Energy, 2015, 13, 58-66.	16.0	135
56	Nitrogen-doped TiO₂ nanospheres for advanced sodium-ion battery and sodium-ion capacitor applications. Journal of Materials Chemistry A, 2016, 4, 18278-18283.	10.3	135
57	Liquid Alloy Interlayer for Aqueous Zinc-Ion Battery. ACS Energy Letters, 2021, 6, 675-683.	17.4	135
58	Antiâ€Corrosive and Znâ€Ionâ€Regulating Composite Interlayer Enabling Longâ€Life Zn Metal Anodes. Advanced Functional Materials, 2021, 31, 2104361.	14.9	135
59	Two-dimensional NiCo₂O₄nanosheet-coated three-dimensional graphene networks for high-rate, long-cycle-life supercapacitors. Nanoscale, 2015, 7, 7035-7039.	5.6	134
60	Suppressing by-product via stratified adsorption effect to assist highly reversible zinc anode in aqueous electrolyte. Journal of Energy Chemistry, 2021, 55, 549-556.	12.9	132
61	Regulating Zinc Deposition Behaviors by the Conditioner of PAN Separator for Zincâ€Ion Batteries. Advanced Functional Materials, 2022, 32, .	14.9	130
62	Organicâ€“Inorganic Hybrid Cathode with Dual Energyâ€Storage Mechanism for Ultrahighâ€Rate and Ultralongâ€Life Aqueous Zincâ€Ion Batteries. Advanced Materials, 2022, 34, e2105452.	21.0	129
63	Issues and Opportunities Facing Aqueous Mn²⁺/MnO₂â€based Batteries. ChemSusChem, 2022, 15, .	6.8	129
64	Hierarchical mesoporous MoSe2@CoSe/N-doped carbon nanocomposite for sodium ion batteries and hydrogen evolution reaction applications. Energy Storage Materials, 2019, 21, 97-106.	18.0	128
65	Electrolyte/electrode interfacial electrochemical behaviors and optimization strategies in aqueous zinc-ion batteries. Energy Storage Materials, 2022, 45, 618-646.	18.0	125
66	Ultra-High Mass-Loading Cathode for Aqueous Zinc-Ion Battery Based on Graphene-Wrapped Aluminum Vanadate Nanobelts. Nano-Micro Letters, 2019, 11, 69.	27.0	122
67	Electrochemical Activation of Manganeseâ€Based Cathode in Aqueous Zincâ€Ion Electrolyte. Advanced Functional Materials, 2020, 30, 2002711.	14.9	120
68	Chemical Synthesis of 3D Grapheneâ€Like Cages for Sodiumâ€Ion Batteries Applications. Advanced Energy Materials, 2017, 7, 1700797.	19.5	113
69	New Prelithiated V₂O₅ Superstructure for Lithium-Ion Batteries with Long Cycle Life and High Power. ACS Energy Letters, 2020, 5, 31-38.	17.4	113
70	Nanosheet-structured LiV3O8 with high capacity and excellent stability for high energy lithium batteries. Journal of Materials Chemistry, 2011, 21, 10077.	6.7	112
71	Mesoporous NiCo2O4 nanoneedles grown on three dimensional graphene networks as binder-free electrode for high-performance lithium-ion batteries and supercapacitors. Electrochimica Acta, 2015, 176, 1-9.	5.2	110
72	Increasing Accessible Subsurface to Improving Rate Capability and Cycling Stability of Sodiumâ€Ion Batteries. Advanced Materials, 2021, 33, e2100808.	21.0	110

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73	An Exploration of New Energy Storage System: High Energy Density, High Safety, and Fast Charging Lithium Ion Battery. Advanced Functional Materials, 2019, 29, 1805978.	14.9	109
74	Stable Zinc Metal Anodes with Textured Crystal Faces and Functional Zinc Compound Coatings. Advanced Functional Materials, 2021, 31, 2106114.	14.9	109
75	Metal-organic framework-derived porous shuttle-like vanadium oxides for sodium-ion battery application. Nano Research, 2018, 11, 449-463.	10.4	108
76	Highly Reversible Phase Transition Endows V₆O₁₃ with Enhanced Performance as Aqueous Zincâ€Ion Battery Cathode. Energy Technology, 2019, 7, 1900022.	3.8	108
77	Mechanistic Insights of Mg²⁺â€Electrolyte Additive for Highâ€Energy and Longâ€Life Zincâ€Ion Hybrid Capacitors. Advanced Energy Materials, 2021, 11, 2101158.	19.5	108
78	Nb₂O₅ quantum dots embedded in MOF derived nitrogen-doped porous carbon for advanced hybrid supercapacitor applications. Journal of Materials Chemistry A, 2016, 4, 17838-17847.	10.3	107
79	Self-templated synthesis of N-doped CoSe2/C double-shelled dodecahedra for high-performance supercapacitors. Energy Storage Materials, 2017, 8, 28-34.	18.0	107
80	Progress and prospect of low-temperature zinc metal batteries. , 2022, 1, 100011.		107
81	Template free synthesis of LiV₃O₈nanorods as a cathode material for high-rate secondary lithium batteries. Journal of Materials Chemistry, 2011, 21, 1153-1161.	6.7	105
82	Facile synthesis of nanorod-assembled multi-shelled Co3O4 hollow microspheres for high-performance supercapacitors. Journal of Power Sources, 2014, 272, 107-112.	7.8	101
83	Nitrogen doped hollow MoS 2 /C nanospheres as anode for long-life sodium-ion batteries. Chemical Engineering Journal, 2017, 327, 522-529.	12.7	101
84	Tin sulfide nanoparticles embedded in sulfur and nitrogen dual-doped mesoporous carbon fibers as high-performance anodes with battery-capacitive sodium storage. Energy Storage Materials, 2019, 18, 366-374.	18.0	101
85	High-rate cathodes based on Li3V2(PO4)3 nanobelts prepared via surfactant-assisted fabrication. Journal of Power Sources, 2011, 196, 3646-3649.	7.8	100
86	Mesoporous silica nanoparticles as potential carriers for enhanced drug solubility of paclitaxel. Materials Science and Engineering C, 2017, 78, 12-17.	7.3	97
87	Stabilization of Zn Metal Anode through Surface Reconstruction of a Ceriumâ€Based Conversion Film. Advanced Functional Materials, 2021, 31, 2103227.	14.9	97
88	Enhanced Lithium-Ion Intercalation Properties of V₂O₅ Xerogel Electrodes with Surface Defects. Journal of Physical Chemistry C, 2011, 115, 4959-4965.	3.1	96
89	Templateâ€Free Synthesis of Hierarchical Vanadiumâ€Glycolate Hollow Microspheres and Their Conversion to V₂O₅ with Improved Lithium Storage Capability. Chemistry - A European Journal, 2013, 19, 494-500.	3.3	96
90	Oxygen-Incorporated MoS₂ Nanosheets with Expanded Interlayers for Hydrogen Evolution Reaction and Pseudocapacitor Applications. ACS Applied Materials & Interfaces, 2016, 8, 33681-33689.	8.0	94

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91	N-S co-doped C@SnS nanoflakes/graphene composite as advanced anode for sodium-ion batteries. Chemical Engineering Journal, 2018, 353, 606-614.	12.7	93
92	Fabrication of nano-structured super-hydrophobic film on aluminum by controllable immersing method. Applied Surface Science, 2012, 258, 5933-5937.	6.1	91
93	Rational design of multi-shelled CoO/Co₉S₈ hollow microspheres for high-performance hybrid supercapacitors. Journal of Materials Chemistry A, 2017, 5, 18448-18456.	10.3	91
94	Heterogeneous NiS/NiO multi-shelled hollow microspheres with enhanced electrochemical performances for hybrid-type asymmetric supercapacitors. Journal of Materials Chemistry A, 2018, 6, 9153-9160.	10.3	90
95	A Confined Replacement Synthesis of Bismuth Nanodots in MOF Derived Carbon Arrays as Binderâ€Free Anodes for Sodiumâ€Ion Batteries. Advanced Science, 2019, 6, 1900162.	11.2	90
96	Eutectic electrolyte based on N-methylacetamide for highly reversible zincâ€“iodine battery. Energy and Environmental Science, 2022, 15, 1192-1200.	30.8	89
97	N-doped one-dimensional carbonaceous backbones supported MoSe2 nanosheets as superior electrodes for energy storage and conversion. Chemical Engineering Journal, 2018, 334, 2190-2200.	12.7	88
98	Operando Oxygen Vacancies for Enhanced Activity and Stability toward Nitrogen Photofixation. Advanced Energy Materials, 2019, 9, 1902319.	19.5	88
99	Hydrated Eutectic Electrolyte with Ligandâ€Oriented Solvation Shell to Boost the Stability of Zinc Battery. Advanced Functional Materials, 2022, 32, .	14.9	87
100	Structural perspective on revealing energy storage behaviors of silver vanadate cathodes in aqueous zinc-ion batteries. Acta Materialia, 2019, 180, 51-59.	7.9	86
101	Yolk-shell structured V2O3 microspheres wrapped in N, S co-doped carbon as pea-pod nanofibers for high-capacity lithium ion batteries. Chemical Engineering Journal, 2019, 374, 545-553.	12.7	86
102	Near-infrared light-driven photofixation of nitrogen over Ti3C2Tx/TiO2 hybrid structures with superior activity and stability. Applied Catalysis B: Environmental, 2020, 273, 119072.	20.2	86
103	High-performance sodium-ion batteries and flexible sodium-ion capacitors based on Sb₂X₃(X = O, S)/carbon fiber cloth. Journal of Materials Chemistry A, 2017, 5, 9169-9176.	10.3	84
104	Reversible Zn-driven reduction displacement reaction in aqueous zinc-ion battery. Journal of Materials Chemistry A, 2019, 7, 7355-7359.	10.3	84
105	PVP-assisted synthesis of MoS2 nanosheets with improved lithium storage properties. CrystEngComm, 2013, 15, 4998.	2.6	83
106	Uniform MnCo₂O₄ Porous Dumbbells for Lithium-Ion Batteries and Oxygen Evolution Reactions. ACS Applied Materials & Interfaces, 2018, 10, 8730-8738.	8.0	83
107	Hydrogen Bondâ€Functionalized Massive Solvation Modules Stabilizing Bilateral Interfaces. Advanced Functional Materials, 2022, 32, .	14.9	82
108	Modulating oxygen coverage of Ti3C2Tx MXenes to boost catalytic activity for HCOOH dehydrogenation. Nature Communications, 2020, 11, 4251.	12.8	81

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109	Uniform 8LiFePO 4 Â·Li 3 V 2 (PO 4) 3 /C nanoflakes for high-performance Li-ion batteries. Nano Energy, 2016, 22, 48-58.	16.0	80
110	Layered hydrated vanadium oxide as highly reversible intercalation cathode for aqueous Znâ€ion batteries. , 2020, 2, 294-301.		80
111	Highly Dispersed Cobalt Nanoparticles Embedded in Nitrogen-Doped Graphitized Carbon for Fast and Durable Potassium Storage. Nano-Micro Letters, 2021, 13, 21.	27.0	80
112	Ion migration and defect effect of electrode materials in multivalent-ion batteries. Progress in Materials Science, 2022, 125, 100911.	32.8	79
113	Bismuth nanosheets grown on carbon fiber cloth as advanced binder-free anode for sodium-ion batteries. Electrochemistry Communications, 2017, 81, 10-13.	4.7	78
114	Facile synthesis of Nb2O5/carbon nanocomposites as advanced anode materials for lithium-ion batteries. Electrochimica Acta, 2018, 292, 63-71.	5.2	77
115	Structural Modification of V₂O₅ as High-Performance Aqueous Zinc-Ion Battery Cathode. Journal of the Electrochemical Society, 2019, 166, A480-A486.	2.9	75
116	In situ formation of Ni₃S₂â€“Cu_{1.8}S nanosheets to promote hybrid supercapacitor performance. Journal of Materials Chemistry A, 2019, 7, 11044-11052.	10.3	71
117	Hierarchically Structured Nitrogen-Doped Carbon Microspheres for Advanced Potassium Ion Batteries. , 2020, 2, 853-860.		70
118	Binding MoSe₂ with dual protection carbon for high-performance sodium storage. Journal of Materials Chemistry A, 2019, 7, 22871-22878.	10.3	69
119	High-performance anode based on porous Co3O4 nanodiscs. Journal of Power Sources, 2014, 255, 125-129.	7.8	67
120	TiO2 nanorods grown on carbon fiber cloth as binder-free electrode for sodium-ion batteries and flexible sodium-ion capacitors. Journal of Power Sources, 2017, 363, 284-290.	7.8	67
121	Hierarchically carbon-coated Na3V2(PO4)3 nanoflakes for high-rate capability and ultralong cycle-life sodium ion batteries. Chemical Engineering Journal, 2018, 339, 162-169.	12.7	67
122	S-doped porous carbon confined SnS nanospheres with enhanced electrochemical performance for sodium-ion batteries. Journal of Materials Chemistry A, 2018, 6, 18286-18292.	10.3	67
123	Manipulating Ion Concentration to Boost Twoâ€Electron Mn⁴⁺/Mn²⁺ Redox Kinetics through a Colloid Electrolyte for Highâ€Capacity Zinc Batteries. Advanced Energy Materials, 2022, 12, .	19.5	65
124	Necklace-like Si@C nanofibers as robust anode materials for high performance lithium ion batteries. Science Bulletin, 2019, 64, 261-269.	9.0	63
125	Controllable synthesis of highly uniform cuboid-shape MOFs and their derivatives for lithium-ion battery and photocatalysis applications. Chemical Engineering Journal, 2017, 322, 281-292.	12.7	59
126	Carbon quantum dot modified Na₃V₂(PO₄)₂F₃as a high-performance cathode material for sodium-ion batteries. Journal of Materials Chemistry A, 2020, 8, 18872-18879.	10.3	59

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127	Hydrothermal synthesis of coherent porous V2O3/carbon nanocomposites for high-performance lithium- and sodium-ion batteries. Science China Materials, 2017, 60, 717-727.	6.3	58
128	Rare Cobalt-Based Phosphate Nanoribbons with Unique 5-Coordination for Electrocatalytic Water Oxidation. ACS Energy Letters, 2018, 3, 1254-1260.	17.4	57
129	Nanoflake-assembled three-dimensional Na3V2(PO4)3/C cathode for high performance sodium ion batteries. Chemical Engineering Journal, 2018, 335, 301-308.	12.7	57
130	Solvent Molecule Cooperation Enhancing Lithium Metal Battery Performance at Both Electrodes. Angewandte Chemie - International Edition, 2020, 59, 7797-7802.	13.8	57
131	Synthesis of polycrystalline K0.25V2O5 nanoparticles as cathode for aqueous zinc-ion battery. Journal of Alloys and Compounds, 2019, 801, 82-89.	5.5	56
132	Facile synthesis of potassium vanadate cathode material with superior cycling stability for lithium ion batteries. Journal of Power Sources, 2015, 275, 694-701.	7.8	55
133	Amino-functionalized mesoporous silica nanoparticles as efficient carriers for anticancer drug delivery. Journal of Biomaterials Applications, 2017, 32, 524-532.	2.4	55
134	Synergetic stability enhancement with magnesium and calcium ion substitution for Ni/Mn-based P2-type sodium-ion battery cathodes. Chemical Science, 2022, 13, 726-736.	7.4	54
135	Tuning Interface Bridging Between MoSe2 and Three-Dimensional Carbon Framework by Incorporation of MoC Intermediate to Boost Lithium Storage Capability. Nano-Micro Letters, 2020, 12, 171.	27.0	53
136	Fe Single-Atom Catalyst for Visible-Light-Driven Photofixation of Nitrogen Sensitized by Triphenylphosphine and Sodium Iodide. ACS Catalysis, 2020, 10, 5502-5510.	11.2	51
137	Ni₂P₂O₇Nanoarrays with Decorated C₃N₄Nanosheets as Efficient Electrode for Supercapacitors. ACS Applied Energy Materials, 2018, 1, 2016-2023.	5.1	50
138	Interlayer Doping in Layered Vanadium Oxides for Lowâ€cost Energy Storage: Sodiumâ€ion Batteries and Aqueous Zincâ€ion Batteries. ChemNanoMat, 2020, 6, 1553-1566.	2.8	49
139	Tuning crystal structure and redox potential of NASICON-type cathodes for sodium-ion batteries. Nano Research, 2020, 13, 3330-3337.	10.4	49
140	Enlarged interlayer spacing and enhanced capacitive behavior of a carbon anode for superior potassium storage. Science Bulletin, 2020, 65, 2014-2021.	9.0	47
141	Design Strategies for Highâ€Energyâ€Density Aqueous Zinc Batteries. Angewandte Chemie, 2022, 134, .	2.0	47
142	Building Ultra-Stable and Low-Polarization Composite Zn Anode Interface via Hydrated Polyzwitterionic Electrolyte Construction. Nano-Micro Letters, 2022, 14, 93.	27.0	46
143	Ultrafine MoO2 nanoparticles grown on graphene sheets as anode materials for lithium-ion batteries. Materials Letters, 2014, 127, 32-35.	2.6	45
144	Synthesis of mesoporous Î²-Na0.33V2O5 with enhanced electrochemical performance for lithium ion batteries. Electrochimica Acta, 2014, 130, 119-126.	5.2	45

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145	Cycling and Failing of Lithium Metal Anodes in Carbonate Electrolyte. Journal of Physical Chemistry C, 2018, 122, 21462-21467.	3.1	45
146	Fabrication of <scp>M</scp>nâ€“<scp>C</scp>o Spinel Coatings on <scp>C</scp>rofer 22 <scp>APU</scp> Stainless Steel by Electrophoretic Deposition for Interconnect Applications in Solid Oxide Fuel Cells. International Journal of Applied Ceramic Technology, 2014, 11, 332-341.	2.1	44
147	Nanorod-Nanoflake Interconnected LiMnPO₄Â·Li₃V₂(PO₄)₃/C Composite for High-Rate and Long-Life Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 27632-27641.	8.0	44
148	Three-Dimensional Carbon-Coated Treelike Ni₃S₂ Superstructures on a Nickel Foam as Binder-Free Bifunctional Electrodes. ACS Applied Materials & Interfaces, 2018, 10, 36018-36027.	8.0	44
149	Ultrathin Na_{1.1}V₃O_{7.9} Nanobelts with Superior Performance as Cathode Materials for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2013, 5, 8704-8709.	8.0	43
150	Controllable fabrication of urchin-like Co₃O₄ hollow spheres for high-performance supercapacitors and lithium-ion batteries. Dalton Transactions, 2016, 45, 15155-15161.	3.3	43
151	Dodecahedron-Shaped Porous Vanadium Oxide and Carbon Composite for High-Rate Lithium Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 17303-17311.	8.0	43
152	Graphene oxide templated nitrogen-doped carbon nanosheets with superior rate capability for sodium ion batteries. Carbon, 2017, 122, 82-91.	10.3	43
153	Reaction mechanisms and optimization strategies of manganese-based materials for aqueous zinc batteries. Materials Today Energy, 2021, 20, 100626.	4.7	42
154	Low Currentâ€Density Stable Zincâ€Metal Batteries Via Aqueous/Organic Hybrid Electrolyte. Batteries and Supercaps, 2022, 5, .	4.7	42
155	Quasiâ€Solid Electrolyte Design and In Situ Construction of Dual Electrolyte/Electrode Interphases for Highâ€Stability Zinc Metal Battery. Advanced Energy Materials, 2022, 12, .	19.5	42
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