Shi Xue Dou

List of Publications by Year
in descending order

1,114 papers	75,259 citations	263 141 h-index	1589 216 g-index
1135 all docs	1135 docs citations	1135 times ranked	51095 citing authors

#	Article	IF	Citations
1	Heterostructures for Electrochemical Hydrogen Evolution Reaction: A Review. Advanced Functional Materials, 2018, 28, 1803291.	7.8	906
2	Highâ€Performance Sodium Ion Batteries Based on a 3D Anode from Nitrogenâ€Doped Graphene Foams. Advanced Materials, 2015, 27, 2042-2048.	11.1	812
3	Preparation and Electrochemical Properties of SnO2 Nanowires for Application in Lithium-Ion Batteries. Angewandte Chemie - International Edition, 2007, 46, 750-753.	7.2	756
4	Generalized self-assembly of scalable two-dimensional transition metal oxide nanosheets. Nature Communications, 2014, 5, 3813.	5.8	741
5	Advances and Challenges in Metal Sulfides/Selenides for Nextâ€Generation Rechargeable Sodiumâ€Ion Batteries. Advanced Materials, 2017, 29, 1700606.	11.1	726
6	Alloyâ€Based Anode Materials toward Advanced Sodiumâ€Ion Batteries. Advanced Materials, 2017, 29, 1700622.	11.1	613
7	A technology review of electrodes and reaction mechanisms in vanadium redox flow batteries. Journal of Materials Chemistry A, 2015, 3, 16913-16933.	5.2	565
8	Metalâ€Free Carbon Materials for CO₂ Electrochemical Reduction. Advanced Materials, 2017, 29, 1701784.	11.1	558
9	Hybrid 2D Dualâ€Metalâ€“Organic Frameworks for Enhanced Water Oxidation Catalysis. Advanced Functional Materials, 2018, 28, 1801554.	7.8	550
10	Efficient Ammonia Electrosynthesis from Nitrate on Strained Ruthenium Nanoclusters. Journal of the American Chemical Society, 2020, 142, 7036-7046.	6.6	542
11	Sn/graphene nanocomposite with 3D architecture for enhanced reversible lithium storage in lithium ion batteries. Journal of Materials Chemistry, 2009, 19, 8378.	6.7	523
12	Facile Synthesis of Fe₃O₄/GCs Composites and Their Enhanced Microwave Absorption Properties. ACS Applied Materials & Interfaces, 2016, 8, 6101-6109.	4.0	518
13	Sodiumâ€Ion Batteries: From Academic Research to Practical Commercialization. Advanced Energy Materials, 2018, 8, 1701428.	10.2	494
14	Reduced graphene oxide with superior cycling stability and rate capability for sodium storage. Carbon, 2013, 57, 202-208.	5.4	491
15	Defects in metal triiodide perovskite materials towards high-performance solar cells: origin, impact, characterization, and engineering. Chemical Society Reviews, 2018, 47, 4581-4610.	18.7	455
16	Large-scale synthesis of coaxial carbon nanotube/Ni(OH)2 composites for asymmetric supercapacitor application. Nano Energy, 2015, 11, 211-218.	8.2	439
17	Electrodeposition of MnO2 nanowires on carbon nanotube paper as free-standing, flexible electrode for supercapacitors. Electrochemistry Communications, 2008, 10, 1724-1727.	2.3	419
18	Fabrication of symmetric supercapacitors based on MOF-derived nanoporous carbons. Journal of Materials Chemistry A, 2014, 2, 19848-19854.	5.2	419

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19	Comparison of GO, GO/MWCNTs composite and MWCNTs as potential electrode materials for supercapacitors. Energy and Environmental Science, 2011, 4, 1855.	15.6	414
20	Al-Doped Zinc Oxide Nanocomposites with Enhanced Thermoelectric Properties. Nano Letters, 2011, 11, 4337-4342.	4.5	405
21	Enhanced reversible lithium storage in a nanosize silicon/graphene composite. Electrochemistry Communications, 2010, 12, 303-306.	2.3	402
22	Simply Mixed Commercial Red Phosphorus and Carbon Nanotube Composite with Exceptionally Reversible Sodium-Ion Storage. Nano Letters, 2013, 13, 5480-5484.	4.5	390
23	Recent Progress in Graphite Intercalation Compounds for Rechargeable Metal (Li, Na, K, Al)â€Ion Batteries. Advanced Science, 2017, 4, 1700146.	5.6	390
24	Rational Design of 3D Dendritic TiO₂ Nanostructures with Favorable Architectures. Journal of the American Chemical Society, 2011, 133, 19314-19317.	6.6	387
25	Uniform yolk-shell iron sulfideâ€“carbon nanospheres for superior sodiumâ€“iron sulfide batteries. Nature Communications, 2015, 6, 8689.	5.8	374
26	Rapid Synthesis of Li₄Ti₅O₁₂ Microspheres as Anode Materials and Its Binder Effect for Lithium-Ion Battery. Journal of Physical Chemistry C, 2011, 115, 16220-16227.	1.5	368
27	Graphene-based composites for electrochemical energy storage. Energy Storage Materials, 2020, 24, 22-51.	9.5	364
28	Small things make a big difference: binder effects on the performance of Li and Na batteries. Physical Chemistry Chemical Physics, 2014, 16, 20347-20359.	1.3	347
29	Amorphous TiO₂ Shells: A Vital Elastic Buffering Layer on Silicon Nanoparticles for Highâ€Performance and Safe Lithium Storage. Advanced Materials, 2017, 29, 1700523.	11.1	342
30	Ultrathin MoS₂ Nanosheets as Anode Materials for Sodiumâ€Ion Batteries with Superior Performance. Advanced Energy Materials, 2015, 5, 1401205.	10.2	341
31	Nanostructured Metal Chalcogenides for Energy Storage and Electrocatalysis. Advanced Functional Materials, 2017, 27, 1702317.	7.8	339
32	Prussian Blue@C Composite as an Ultrahighâ€Rate and Longâ€Life Sodiumâ€Ion Battery Cathode. Advanced Functional Materials, 2016, 26, 5315-5321.	7.8	328
33	Atomicâ€Scale CoO_x Species in Metalâ€“Organic Frameworks for Oxygen Evolution Reaction. Advanced Functional Materials, 2017, 27, 1702546.	7.8	327
34	Atomic Layerâ€byâ€Layer Co₃O₄/Graphene Composite for High Performance Lithiumâ€Ion Batteries. Advanced Energy Materials, 2016, 6, 1501835.	10.2	316
35	Regulation methods for the Zn/electrolyte interphase and the effectiveness evaluation in aqueous Zn-ion batteries. Energy and Environmental Science, 2021, 14, 5669-5689.	15.6	314
36	Active-Site-Enriched Iron-Doped Nickel/Cobalt Hydroxide Nanosheets for Enhanced Oxygen Evolution Reaction. ACS Catalysis, 2018, 8, 5382-5390.	5.5	311

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37	The Effect of Morphological Modification on the Electrochemical Properties of SnO₂ Nanomaterials. Advanced Functional Materials, 2008, 18, 455-461.	7.8	306
38	Atomic cobalt as an efficient electrocatalyst in sulfur cathodes for superior room-temperature sodium-sulfur batteries. Nature Communications, 2018, 9, 4082.	5.8	305
39	Bismuth Oxybromide with Reasonable Photocatalytic Reduction Activity under Visible Light. ACS Catalysis, 2014, 4, 954-961.	5.5	300
40	Sn_{4+x}P₃ @ Amorphous Snâ€P Composites as Anodes for Sodiumâ€Ion Batteries with Low Cost, High Capacity, Long Life, and Superior Rate Capability. Advanced Materials, 2014, 26, 4037-4042.	11.1	298
41	Ultrafine SnO₂nanoparticle loading onto reduced graphene oxide as anodes for sodium-ion batteries with superior rate and cycling performances. Journal of Materials Chemistry A, 2014, 2, 529-534.	5.2	297
42	High-strength scalable MXene films through bridging-induced densification. Science, 2021, 374, 96-99.	6.0	297
43	Recent progress on silicon-based anode materials for practical lithium-ion battery applications. Energy Storage Materials, 2018, 15, 422-446.	9.5	292
44	Flyâ€Eye Inspired Superhydrophobic Antiâ€Fogging Inorganic Nanostructures. Small, 2014, 10, 3001-3006.	5.2	290
45	Reversible structural evolution of sodium-rich rhombohedral Prussian blue for sodium-ion batteries. Nature Communications, 2020, 11, 980.	5.8	283
46	Ambient Aqueous Synthesis of Ultrasmall PEGylated Cu_{2â”’}_xSe Nanoparticles as a Multifunctional Theranostic Agent for Multimodal Imaging Guided Photothermal Therapy of Cancer. Advanced Materials, 2016, 28, 8927-8936.	11.1	282
47	2D Frameworks of C₂N and C₃N as New Anode Materials for Lithiumâ€Ion Batteries. Advanced Materials, 2017, 29, 1702007.	11.1	282
48	Achieving High-Performance Room-Temperature Sodiumâ€“Sulfur Batteries With S@Interconnected Mesoporous Carbon Hollow Nanospheres. Journal of the American Chemical Society, 2016, 138, 16576-16579.	6.6	280
49	Anatase TiO₂: Better Anode Material Than Amorphous and Rutile Phases of TiO₂ for Na-Ion Batteries. Chemistry of Materials, 2015, 27, 6022-6029.	3.2	279
50	The Cathode Choice for Commercialization of Sodiumâ€Ion Batteries: Layered Transition Metal Oxides versus Prussian Blue Analogs. Advanced Functional Materials, 2020, 30, 1909530.	7.8	276
51	Roomâ€Temperature Sodiumâ€Sulfur Batteries: A Comprehensive Review on Research Progress and Cell Chemistry. Advanced Energy Materials, 2017, 7, 1602829.	10.2	270
52	Three-dimensional controlled growth of monodisperse sub-50â€‰nm heterogeneous nanocrystals. Nature Communications, 2016, 7, 10254.	5.8	267
53	NASICON-type air-stable and all-climate cathode for sodium-ion batteries with low cost and high-power density. Nature Communications, 2019, 10, 1480.	5.8	260
54	Two-Dimensional Tin Disulfide Nanosheets for Enhanced Sodium Storage. ACS Nano, 2015, 9, 11371-11381.	7.3	257

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55	Activated carbon from the graphite with increased rate capability for the potassium ion battery. Carbon, 2017, 123, 54-61.	5.4	257
56	Surface Engineering Strategies of Layered LiCoO₂ Cathode Material to Realize Highâ€Energy and Highâ€Voltage Liâ€Ion Cells. Advanced Energy Materials, 2017, 7, 1601507.	10.2	257
57	Understanding the Reaction Chemistry during Charging in Aprotic Lithiumâ€“Oxygen Batteries: Existing Problems and Solutions. Advanced Materials, 2019, 31, e1804587.	11.1	254
58	Prussian Blue Analogues for Sodiumâ€Ion Batteries: Past, Present, and Future. Advanced Materials, 2022, 34, e2108384.	11.1	252
59	Bismuth: A new anode for the Na-ion battery. Nano Energy, 2015, 12, 88-95.	8.2	251
60	Recent Progress of Layered Transition Metal Oxide Cathodes for Sodiumâ€Ion Batteries. Small, 2019, 15, e1805381.	5.2	246
61	Nitrogenâ€Doped Graphene Ribbon Assembled Coreâ€“Sheath MnO@Graphene Scrolls as Hierarchically Ordered 3D Porous Electrodes for Fast and Durable Lithium Storage. Advanced Functional Materials, 2016, 26, 7754-7765.	7.8	245
62	Heterostructured Nanorings of Feâˆ’Fe₃O₄@C Hybrid with Enhanced Microwave Absorption Performance. ACS Applied Materials & Interfaces, 2018, 10, 9369-9378.	4.0	244
63	Recent Development of Zeolitic Imidazolate Frameworks (ZIFs) Derived Porous Carbon Based Materials as Electrocatalysts. Advanced Energy Materials, 2018, 8, 1801257.	10.2	242
64	Recent Progress in the Design of Advanced Cathode Materials and Battery Models for Highâ€Performance Lithiumâ€X (X = O₂, S, Se, Te, I₂, Br₂) Batteries. Advanced Materials, 2017, 29, 1606454.	11.1	240
65	Yolk-shell silicon-mesoporous carbon anode with compact solid electrolyte interphase film for superior lithium-ion batteries. Nano Energy, 2015, 18, 133-142.	8.2	238
66	Everâ€Increasing Pseudocapacitance in RGOâ€“MnOâ€“RGO Sandwich Nanostructures for Ultrahighâ€Rate Lithium Storage. Advanced Functional Materials, 2016, 26, 2198-2206.	7.8	238
67	Room Temperature Giant and Linear Magnetoresistance in Topological Insulator<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Bi</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Te</mml:mi><mml:mn Physical Review Letters, 2012, 108, 266806.	2.9	237
68	Facile and Largeâ€Scale Fabrication of a Cactusâ€Inspired Continuous Fog Collector. Advanced Functional Materials, 2014, 24, 3235-3240.	7.8	233
69	Silicon/Mesoporous Carbon/Crystalline TiO₂ Nanoparticles for Highly Stable Lithium Storage. ACS Nano, 2016, 10, 10524-10532.	7.3	230
70	General Ï€â€Electronâ€Assisted Strategy for Ir, Pt, Ru, Pd, Fe, Ni Singleâ€Atom Electrocatalysts with Bifunctional Active Sites for Highly Efficient Water Splitting. Angewandte Chemie - International Edition, 2019, 58, 11868-11873.	7.2	229
71	Anodic Oxidation Strategy toward Structure-Optimized V₂O₃ Cathode via Electrolyte Regulation for Zn-Ion Storage. ACS Nano, 2020, 14, 7328-7337.	7.3	229
72	High-surface-area Î±-Fe2O3/carbon nanocomposite: one-step synthesis and its highly reversible and enhanced high-rate lithium storage properties. Journal of Materials Chemistry, 2010, 20, 2092.	6.7	228

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73	Coreâ€“Shell Structured Silicon Nanoparticles@TiO_{2â€“x}/Carbon Mesoporous Microfiber Composite as a Safe and High-Performance Lithium-Ion Battery Anode. ACS Nano, 2014, 8, 2977-2985.	7.3	227
74	Chemical Properties, Structural Properties, and Energy Storage Applications of Prussian Blue Analogues. Small, 2019, 15, e1900470.	5.2	226
75	Principals and strategies for constructing a highly reversible zinc metal anode in aqueous batteries. Nano Energy, 2020, 74, 104880.	8.2	225
76	WS2@graphene nanocomposites as anode materials for Na-ion batteries with enhanced electrochemical performances. Chemical Communications, 2014, 50, 4192.	2.2	224
77	Sodium transition metal oxides: the preferred cathode choice for future sodium-ion batteries?. Energy and Environmental Science, 2021, 14, 158-179.	15.6	224
78	Improved ferroelectric properties in multiferroic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">Bi</mml:mi><mml:mi mathvariant="normal">Fe</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>thin films through La and Nb codoping. Physical Review B, 2008, 77, .	1.1	223
79	Cathode materials for next generation lithium ion batteries. Nano Energy, 2013, 2, 439-442.	8.2	221
80	Ni(OH)2 Tubes with Mesoscale Dimensions as Positive-Electrode Materials of Alkaline Rechargeable Batteries. Angewandte Chemie - International Edition, 2004, 43, 4212-4216.	7.2	215
81	Vacancy Engineering of Ironâ€Doped W₁₈O₄₉ Nanoreactors for Lowâ€Barrier Electrochemical Nitrogen Reduction. Angewandte Chemie - International Edition, 2020, 59, 7356-7361.	7.2	215
82	Sulfurâ€“Graphene Nanostructured Cathodes via Ball-Milling for High-Performance Lithiumâ€“Sulfur Batteries. ACS Nano, 2014, 8, 10920-10930.	7.3	213
83	Engineering of lithium-metal anodes towards a safe and stable battery. Energy Storage Materials, 2018, 14, 22-48.	9.5	213
84	Engineering the Distribution of Carbon in Silicon Oxide Nanospheres at the Atomic Level for Highly Stable Anodes. Angewandte Chemie - International Edition, 2019, 58, 6669-6673.	7.2	209
85	Lowâ€Coordinate Iridium Oxide Confined on Graphitic Carbon Nitride for Highly Efficient Oxygen Evolution. Angewandte Chemie - International Edition, 2019, 58, 12540-12544.	7.2	208
86	High Capacity, Safety, and Enhanced Cyclability of Lithium Metal Battery Using a V₂O₅ Nanomaterial Cathode and Room Temperature Ionic Liquid Electrolyte. Chemistry of Materials, 2008, 20, 7044-7051.	3.2	205
87	Critical thickness of phenolic resin-based carbon interfacial layer for improving long cycling stability of silicon nanoparticle anodes. Nano Energy, 2016, 27, 255-264.	8.2	204
88	The effect of different binders on electrochemical properties of LiNi1/3Mn1/3Co1/3O2 cathode material in lithium ion batteries. Journal of Power Sources, 2013, 225, 172-178.	4.0	202
89	Single Crystalline Co3O4 Nanocrystals Exposed with Different Crystal Planes for Li-O2 Batteries. Scientific Reports, 2014, 4, 5767.	1.6	201
90	3D Printing of Porous Nitrogen-Doped Ti₃C₂ MXene Scaffolds for High-Performance Sodium-Ion Hybrid Capacitors. ACS Nano, 2020, 14, 867-876.	7.3	201

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91	Recent advances in chemical adsorption and catalytic conversion materials for Liâ€“S batteries. Journal of Energy Chemistry, 2020, 42, 144-168.	7.1	198
92	Non-carbon-supported single-atom site catalysts for electrocatalysis. Energy and Environmental Science, 2021, 14, 2809-2858.	15.6	198
93	Facile synthesis of a interleaved expanded graphite-embedded sulphur nanocomposite as cathode of Liâ€“S batteries with excellent lithium storage performance. Journal of Materials Chemistry, 2012, 22, 4744.	6.7	195
94	Platinum/Nickel Bicarbonate Heterostructures towards Accelerated Hydrogen Evolution under Alkaline Conditions. Angewandte Chemie - International Edition, 2019, 58, 5432-5437.	7.2	194
95	Spinel/Post-spinel engineering on layered oxide cathodes for sodium-ion batteries. EScience, 2021, 1, 13-27.	25.0	194
96	Highâ€Performance Sodiumâ€Ion Batteries and Sodiumâ€Ion Pseudocapacitors Based on MoS₂/Graphene Composites. Chemistry - A European Journal, 2014, 20, 9607-9612.	1.7	192
97	Prelithiation: A Crucial Strategy for Boosting the Practical Application of Next-Generation Lithium Ion Battery. ACS Nano, 2021, 15, 2197-2218.	7.3	192
98	3D spongy CoS2 nanoparticles/carbon composite as high-performance anode material for lithium/sodium ion batteries. Chemical Engineering Journal, 2018, 332, 370-376.	6.6	189
99	A Green and Facile Way to Prepare Granadillaâ€Like Siliconâ€Based Anode Materials for Liâ€Ion Batteries. Advanced Functional Materials, 2016, 26, 440-446.	7.8	187
100	An Ir/Ni(OH)₂ Heterostructured Electrocatalyst for the Oxygen Evolution Reaction: Breaking the Scaling Relation, Stabilizing Iridium(V), and Beyond. Advanced Materials, 2020, 32, e2000872.	11.1	187
101	Fish Gill Inspired Crossflow for Efficient and Continuous Collection of Spilled Oil. ACS Nano, 2017, 11, 2477-2485.	7.3	186
102	Flexible perovskite solar cell-driven photo-rechargeable lithium-ion capacitor for self-powered wearable strain sensors. Nano Energy, 2019, 60, 247-256.	8.2	180
103	A case study on fibrous porous SnO 2 anode for robust, high-capacity lithium-ion batteries. Nano Energy, 2014, 10, 53-62.	8.2	179
104	Graphene-like holey Co3O4 nanosheets as a highly efficient catalyst for oxygen evolution reaction. Nano Energy, 2016, 30, 267-275.	8.2	179
105	Silicene: A Promising Anode for Lithiumâ€Ion Batteries. Advanced Materials, 2017, 29, 1606716.	11.1	179
106	Synergistic deficiency and heterojunction engineering boosted VO2 redox kinetics for aqueous zinc-ion batteries with superior comprehensive performance. Energy Storage Materials, 2020, 33, 390-398.	9.5	178
107	High thermoelectric and mechanical performance in highly dense Cu_{2â^'x}S bulks prepared by a melt-solidification technique. Journal of Materials Chemistry A, 2015, 3, 9432-9437.	5.2	176
108	Zero-gap materials for future spintronics, electronics and optics. NPG Asia Materials, 2010, 2, 31-38.	3.8	175

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109	Tuning the Band Gap in Silicene by Oxidation. ACS Nano, 2014, 8, 10019-10025.	7.3	175
110	Edgeâ€Fluorinated Graphene Nanoplatelets as High Performance Electrodes for Dyeâ€Sensitized Solar Cells and Lithium Ion Batteries. Advanced Functional Materials, 2015, 25, 1170-1179.	7.8	174
111	Engineering Hierarchical Hollow Nickel Sulfide Spheres for Highâ€Performance Sodium Storage. Advanced Functional Materials, 2016, 26, 7479-7485.	7.8	174
112	Desert Beetleâ€Inspired Superwettable Patterned Surfaces for Water Harvesting. Small, 2017, 13, 1701403.	5.2	173
113	Conducting Poly(aniline) Nanotubes and Nanofibers: Controlled Synthesis and Application in Lithium/Poly(aniline) Rechargeable Batteries. Chemistry - A European Journal, 2006, 12, 3082-3088.	1.7	171
114	Recent Progress on Nickelâ€Based Oxide/(Oxy)Hydroxide Electrocatalysts for the Oxygen Evolution Reaction. Chemistry - A European Journal, 2019, 25, 703-713.	1.7	170
115	Improved Reversibility of Fe³⁺/Fe⁴⁺ Redox Couple in Sodium Super Ion Conductor Type Na₃Fe₂(PO₄)₃ for Sodiumâ€Ion Batteries. Advanced Materials, 2017, 29, 1605694.	11.1	169
116	A Flexible 3D Multifunctional MgOâ€Decorated Carbon Foam@CNTs Hybrid as Selfâ€Supported Cathode for Highâ€Performance Lithiumâ€Sulfur Batteries. Advanced Functional Materials, 2017, 27, 1702573.	7.8	169
117	Feasibility of Cathode Surface Coating Technology for Highâ€Energy Lithiumâ€ion and Beyondâ€Lithiumâ€ion Batteries. Advanced Materials, 2017, 29, 1605807.	11.1	168
118	Bioâ€Nanotechnology in Highâ€Performance Supercapacitors. Advanced Energy Materials, 2017, 7, 1700592.	10.2	168
119	Nonlithium Metalâ€“Sulfur Batteries: Steps Toward a Leap. Advanced Materials, 2019, 31, e1802822.	11.1	168
120	SnS₂ Nanoplatelet@Graphene Nanocomposites as Highâ€Capacity Anode Materials for Sodiumâ€Ion Batteries. Chemistry - an Asian Journal, 2014, 9, 1611-1617.	1.7	166
121	Superhydrophobic Shape Memory Polymer Arrays with Switchable Isotropic/Anisotropic Wetting. Advanced Functional Materials, 2018, 28, 1705002.	7.8	166
122	Multifunctional conducing polymer coated Na1+MnFe(CN)6 cathode for sodium-ion batteries with superior performance via a facile and one-step chemistry approach. Nano Energy, 2015, 13, 200-207.	8.2	165
123	Everlasting Living and Breathing Gyroid 3D Network in Si@SiOx/C Nanoarchitecture for Lithium Ion Battery. ACS Nano, 2019, 13, 9607-9619.	7.3	165
124	Longâ€Life Roomâ€Temperature Sodiumâ€“Sulfur Batteries by Virtue of Transitionâ€Metalâ€Nanoclusterâ€“Sulfur Interactions. Angewandte Chemie - International Edition, 2019, 58, 1484-1488.	7.2	165
125	Facile Method To Synthesize Na-Enriched Na_{1+x}FeFe(CN)₆ Frameworks as Cathode with Superior Electrochemical Performance for Sodium-Ion Batteries. Chemistry of Materials, 2015, 27, 1997-2003.	3.2	163
126	Improving the photo-oxidative capability of BiOBr via crystal facet engineering. Journal of Materials Chemistry A, 2017, 5, 8117-8124.	5.2	163

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127	High-performance room-temperature sodiumâ€“sulfur battery enabled by electrocatalytic sodium polysulfides full conversion. Energy and Environmental Science, 2020, 13, 562-570.	15.6	163
128	Atomically thin non-layered nanomaterials for energy storage and conversion. Chemical Society Reviews, 2017, 46, 7338-7373.	18.7	162
129	Carbonâ€Coated Na_{3.32}Fe_{2.34}(P₂O₇)₂ Cathode Material for Highâ€Rate and Longâ€Life Sodiumâ€Ion Batteries. Advanced Materials, 2017, 29, 1605535.	11.1	161
130	High Energy Density Sodiumâ€Ion Battery with Industrially Feasible and Airâ€Stable O3â€Type Layered Oxide Cathode. Advanced Energy Materials, 2018, 8, 1701610.	10.2	161
131	Edgeâ€Selectively Halogenated Graphene Nanoplatelets (XGnPs, X = Cl, Br, or I) Prepared by Ballâ€Milling and Used as Anode Materials for Lithiumâ€Ion Batteries. Advanced Materials, 2014, 26, 7317-7323.	11.1	160
132	Direct Hybridization of Noble Metal Nanostructures on 2D Metalâ€“Organic Framework Nanosheets To Catalyze Hydrogen Evolution. Nano Letters, 2019, 19, 8447-8453.	4.5	160
133	Nanodroplets for Stretchable Superconducting Circuits. Advanced Functional Materials, 2016, 26, 8111-8118.	7.8	158
134	Nanostructured SnSb/Carbon Nanotube Composites Synthesized by Reductive Precipitation for Lithium-Ion Batteries. Chemistry of Materials, 2007, 19, 2406-2410.	3.2	157
135	A new, cheap, and productive FeP anode material for sodium-ion batteries. Chemical Communications, 2015, 51, 3682-3685.	2.2	154
136	Solid Electrolyte Interphases on Sodium Metal Anodes. Advanced Functional Materials, 2020, 30, 2004891.	7.8	154
137	Ruâ€“Co Pair Sites Catalyst Boosts the Energetics for the Oxygen Evolution Reaction. Angewandte Chemie - International Edition, 2022, 61, .	7.2	154
138	Hierarchical orthorhombic V2O5 hollow nanospheres as high performance cathode materials for sodium-ion batteries. Journal of Materials Chemistry A, 2014, 2, 11185.	5.2	153
139	Confined Feâ€“Cu Clusters as Subâ€Nanometer Reactors for Efficiently Regulating the Electrochemical Nitrogen Reduction Reaction. Advanced Materials, 2020, 32, e2004382.	11.1	152
140	Multifunctional Activeâ€Centerâ€Transferable Platinum/Lithium Cobalt Oxide Heterostructured Electrocatalysts towards Superior Water Splitting. Angewandte Chemie - International Edition, 2020, 59, 14533-14540.	7.2	152
141	Nitrogen Reduction to Ammonia on Atomicâ€Scale Active Sites under Mild Conditions. Small Methods, 2019, 3, 1800501.	4.6	148
142	Wearable energy-smart ribbons for synchronous energy harvest and storage. Nature Communications, 2016, 7, 13319.	5.8	147
143	Nickel sulfide nanocrystals on nitrogen-doped porous carbon nanotubes with high-efficiency electrocatalysis for room-temperature sodium-sulfur batteries. Nature Communications, 2019, 10, 4793.	5.8	147
144	Thermoelectric Enhancement of Different Kinds of Metal Chalcogenides. Advanced Energy Materials, 2016, 6, 1600498.	10.2	145

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145	Ultra-high thermoelectric performance in graphene incorporated Cu2Se: Role of mismatching phonon modes. Nano Energy, 2018, 53, 993-1002.	8.2	145
146	An ultrathin rechargeable solid-state zinc ion fiber battery for electronic textiles. Science Advances, 2021, 7, eabl3742.	4.7	145
147	Fast Responsive and Controllable Liquid Transport on a Magnetic Fluid/Nanoarray Composite Interface. ACS Nano, 2016, 10, 6220-6226.	7.3	144
148	Online state of charge and model parameters estimation of the LiFePO4 battery in electric vehicles using multiple adaptive forgetting factors recursive least-squares. Journal of Power Sources, 2015, 296, 215-224.	4.0	142
149	3D Hierarchical Rutile TiO2 and Metal-free Organic Sensitizer Producing Dye-sensitized Solar Cells 8.6% Conversion Efficiency. Scientific Reports, 2014, 4, 5769.	1.6	142
150	Comprehensive New Insights and Perspectives into Tiâ€Based Anodes for Nextâ€Generation Alkaline Metal (Na⁺, K⁺) Ion Batteries. Advanced Energy Materials, 2018, 8, 1801888.	10.2	142
151	Rayleigh-Instability-Induced Bismuth Nanorod@Nitrogen-Doped Carbon Nanotubes as A Long Cycling and High Rate Anode for Sodium-Ion Batteries. Nano Letters, 2019, 19, 1998-2004.	4.5	142
152	Facile Synthesis of Hierarchical Hollow CoP@C Composites with Superior Performance for Sodium and Potassium Storage. Angewandte Chemie - International Edition, 2020, 59, 5159-5164.	7.2	142
153	Activating Titania for Efficient Electrocatalysis by Vacancy Engineering. ACS Catalysis, 2018, 8, 4288-4293.	5.5	141
154	Thickness-independent scalable high-performance Li-S batteries with high areal sulfur loading via electron-enriched carbon framework. Nature Communications, 2021, 12, 4519.	5.8	139
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