

Li-Qiang Mai

List of Publications by Year in descending order

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610
papers

61,923
citations

466

130
h-index

1676

214
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617
all docs

617
docs citations

617
times ranked

34074
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanostructured Metal Oxides and Sulfides for Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2017, 29, 1601759.	21.0	1,197
2	Water-Lubricated Intercalation in $V_2O_5 \cdot nH_2O$ for High-Capacity and High-Rate Aqueous Rechargeable Zinc Batteries. <i>Advanced Materials</i> , 2018, 30, 1703725.	21.0	1,084
3	Hierarchical MnMoO ₄ /CoMoO ₄ heterostructured nanowires with enhanced supercapacitor performance. <i>Nature Communications</i> , 2011, 2, 381.	12.8	1,040
4	Na ⁺ intercalation pseudocapacitance in graphene-coupled titanium oxide enabling ultra-fast sodium storage and long-term cycling. <i>Nature Communications</i> , 2015, 6, 6929.	12.8	969
5	Layered V_2O_5 Nanosheet-Based Aqueous Zn Ion Battery Cathode. <i>Advanced Energy Materials</i> , 2017, 7, 1601920.	19.5	961
6	General Oriented Formation of Carbon Nanotubes from Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2017, 139, 8212-8221.	13.7	777
7	Silicon oxides: a promising family of anode materials for lithium-ion batteries. <i>Chemical Society Reviews</i> , 2019, 48, 285-309.	38.1	685
8	Manipulating Adsorption-Insertion Mechanisms in Nanostructured Carbon Materials for High-Efficiency Sodium Ion Storage. <i>Advanced Energy Materials</i> , 2017, 7, 1700403.	19.5	662
9	Sodium Ion Stabilized Vanadium Oxide Nanowire Cathode for High-Performance Zinc-Ion Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1702463.	19.5	650
10	Synergistic interaction between redox-active electrolyte and binder-free functionalized carbon for ultrahigh supercapacitor performance. <i>Nature Communications</i> , 2013, 4, 2923.	12.8	623
11	Nanowire Electrodes for Electrochemical Energy Storage Devices. <i>Chemical Reviews</i> , 2014, 114, 11828-11862.	47.7	617
12	Porous One-Dimensional Nanomaterials: Design, Fabrication and Applications in Electrochemical Energy Storage. <i>Advanced Materials</i> , 2017, 29, 1602300.	21.0	615
13	Low-crystalline iron oxide hydroxide nanoparticle anode for high-performance supercapacitors. <i>Nature Communications</i> , 2017, 8, 14264.	12.8	588
14	Highly Durable $Na_2V_6O_{16} \cdot 1.63H_2O$ Nanowire Cathode for Aqueous Zinc-Ion Battery. <i>Nano Letters</i> , 2018, 18, 1758-1763.	9.1	568
15	Graphene Scroll-Coated MnO_2 Nanowires as High-Performance Cathode Materials for Aqueous Zn-Ion Battery. <i>Small</i> , 2018, 14, e1703850.	10.0	563
16	Electrospun Ultralong Hierarchical Vanadium Oxide Nanowires with High Performance for Lithium Ion Batteries. <i>Nano Letters</i> , 2010, 10, 4750-4755.	9.1	549
17	Lithiated MoO_3 Nanobelts with Greatly Improved Performance for Lithium Batteries. <i>Advanced Materials</i> , 2007, 19, 3712-3716.	21.0	545
18	Intricate Hollow Structures: Controlled Synthesis and Applications in Energy Storage and Conversion. <i>Advanced Materials</i> , 2017, 29, 1602914.	21.0	523

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19	Ultrathin Surface Coating Enables Stabilized Zinc Metal Anode. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800848.	3.7	476
20	Effect of Carbon Matrix Dimensions on the Electrochemical Properties of Na ₃ V ₂ (PO ₄) ₃ Nanograins for High-Performance Symmetric Sodium-Ion Batteries. <i>Advanced Materials</i> , 2014, 26, 3545-3553.	21.0	473
21	High-Performance Aqueous Zinc-Ion Battery Based on Layered H ₂ V ₃ O ₈ Nanowire Cathode. <i>Small</i> , 2017, 13, 1702551.	10.0	455
22	Diethyl ether as self-healing electrolyte additive enabled long-life rechargeable aqueous zinc ion batteries. <i>Nano Energy</i> , 2019, 62, 275-281.	16.0	455
23	Self-smoothing anode for achieving high-energy lithium metal batteries under realistic conditions. <i>Nature Nanotechnology</i> , 2019, 14, 594-601.	31.5	451
24	Interfaces in Solid-State Lithium Batteries. <i>Joule</i> , 2018, 2, 1991-2015.	24.0	444
25	Recent Developments on and Prospects for Electrode Materials with Hierarchical Structures for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1701415.	19.5	436
26	Zn/V ₂ O ₅ Aqueous Hybrid-Ion Battery with High Voltage Platform and Long Cycle Life. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 42717-42722.	8.0	401
27	General synthesis of complex nanotubes by gradient electrospinning and controlled pyrolysis. <i>Nature Communications</i> , 2015, 6, 7402.	12.8	370
28	Earth Abundant Fe/Mn-Based Layered Oxide Interconnected Nanowires for Advanced K-Ion Full Batteries. <i>Nano Letters</i> , 2017, 17, 544-550.	9.1	356
29	Manganese Oxide/Carbon Yolk-Shell Nanorod Anodes for High Capacity Lithium Batteries. <i>Nano Letters</i> , 2015, 15, 738-744.	9.1	345
30	SnO ₂ Quantum Dots@Graphene Oxide as a High-Rate and Long-Life Anode Material for Lithium-Ion Batteries. <i>Small</i> , 2016, 12, 588-594.	10.0	338
31	Lithiophilic-lithiophobic gradient interfacial layer for a highly stable lithium metal anode. <i>Nature Communications</i> , 2018, 9, 3729.	12.8	331
32	Advances in metal-organic framework coatings: versatile synthesis and broad applications. <i>Chemical Society Reviews</i> , 2020, 49, 3142-3186.	38.1	327
33	3D self-supported nanopine forest-like Co ₃ O ₄ @CoMoO ₄ core-shell architectures for high-energy solid state supercapacitors. <i>Nano Energy</i> , 2016, 19, 222-233.	16.0	321
34	Hierarchical mesoporous perovskite La _{0.5} Sr _{0.5} Co _{2.91} nanowires with ultrahigh capacity for Li-air batteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 19569-19574.	7.1	315
35	A New View of Supercapacitors: Integrated Supercapacitors. <i>Advanced Energy Materials</i> , 2019, 9, 1901081.	19.5	315
36	Novel layer-by-layer stacked VS ₂ nanosheets with intercalation pseudocapacitance for high-rate sodium ion charge storage. <i>Nano Energy</i> , 2017, 35, 396-404.	16.0	313

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37	Multicomponent Hierarchical Cu ²⁺ -Doped NiCo-LDH/CuO Double Arrays for Ultralong-Life Hybrid Fiber Supercapacitor. <i>Advanced Functional Materials</i> , 2019, 29, 1809004.	14.9	313
38	Nanowires for Electrochemical Energy Storage. <i>Chemical Reviews</i> , 2019, 119, 11042-11109.	47.7	309
39	MoB/g-C ₃ N ₄ Interface Materials as a Schottky Catalyst to Boost Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 496-500.	13.8	308
40	The Marriage of the FeN ₄ Moiety and MXene Boosts Oxygen Reduction Catalysis: Fe 3d Electron Delocalization Matters. <i>Advanced Materials</i> , 2018, 30, e1803220.	21.0	289
41	Improving the tribological characteristics of piston ring assembly in automotive engines using Al ₂ O ₃ and TiO ₂ nanomaterials as nano-lubricant additives. <i>Tribology International</i> , 2016, 103, 540-554.	5.9	287
42	Porous Nickel-Iron Selenide Nanosheets as Highly Efficient Electrocatalysts for Oxygen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 19386-19392.	8.0	284
43	Layer-by-Layer Na ₃ V ₂ (PO ₄) ₃ Embedded in Reduced Graphene Oxide as Superior Rate and Ultralong-Life Sodium-Ion Battery Cathode. <i>Advanced Energy Materials</i> , 2016, 6, 1600389.	19.5	282
44	Materials Design for High-Safety Sodium-Ion Battery. <i>Advanced Energy Materials</i> , 2021, 11, 2000974.	19.5	282
45	Interface Engineering for High-Performance Top-Gated MoS ₂ Field-Effect Transistors. <i>Advanced Materials</i> , 2014, 26, 6255-6261.	21.0	272
46	Vanadium-Based Nanomaterials: A Promising Family for Emerging Metal-Ion Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 1904398.	14.9	262
47	Amorphous Vanadium Oxide Matrixes Supporting Hierarchical Porous Fe ₃ O ₄ /Graphene Nanowires as a High-Rate Lithium Storage Anode. <i>Nano Letters</i> , 2014, 14, 6250-6256.	9.1	257
48	Comprehensive understanding of the roles of water molecules in aqueous Zn-ion batteries: from electrolytes to electrode materials. <i>Energy and Environmental Science</i> , 2021, 14, 3796-3839.	30.8	257
49	Low-Crystalline Bimetallic Metal-Organic Framework Electrocatalysts with Rich Active Sites for Oxygen Evolution. <i>ACS Energy Letters</i> , 2019, 4, 285-292.	17.4	255
50	A 3D Nitrogen-Doped Graphene/TiN Nanowires Composite as a Strong Polysulfide Anchor for Lithium-Sulfur Batteries with Enhanced Rate Performance and High Areal Capacity. <i>Advanced Materials</i> , 2018, 30, e1804089.	21.0	251
51	Structural and chemical synergistic effect of CoS nanoparticles and porous carbon nanorods for high-performance sodium storage. <i>Nano Energy</i> , 2017, 35, 281-289.	16.0	247
52	VO ₂ Nanowires Assembled into Hollow Microspheres for High-Rate and Long-Life Lithium Batteries. <i>Nano Letters</i> , 2014, 14, 2873-2878.	9.1	244
53	Construction of Sulfur Vacancies and Heterojunctions in Tungsten Disulfide to Induce Fast Electronic/Ionic Diffusion Kinetics for Sodium-Ion Batteries. <i>Advanced Materials</i> , 2020, 32, e2005802.	21.0	244
54	Copper-Nickel Nitride Nanosheets as Efficient Bifunctional Catalysts for Hydrazine-Assisted Electrolytic Hydrogen Production. <i>Advanced Energy Materials</i> , 2019, 9, 1900390.	19.5	243

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55	NiSe ₂ Nanooctahedra as an Anode Material for High-Rate and Long-Life Sodium-Ion Battery. ACS Applied Materials & Interfaces, 2017, 9, 311-316.	8.0	234
56	Free-standing kinked nanowire transistor probes for targeted intracellular recording in three dimensions. Nature Nanotechnology, 2014, 9, 142-147.	31.5	230
57	One-Pot Synthesized Bicontinuous Hierarchical Li ₃ V ₂ (PO ₄) ₃ /C Mesoporous Nanowires for High-Rate and Ultralong-Life Lithium-ion Batteries. Nano Letters, 2014, 14, 1042-1048.	9.1	230
58	Self-sacrificed synthesis of three-dimensional Na ₃ V ₂ (PO ₄) ₃ nanofiber network for high-rate sodium-ion full batteries. Nano Energy, 2016, 25, 145-153.	16.0	230
59	From MoO ₃ Nanobelts to MoO ₂ Nanorods: Structure Transformation and Electrical Transport. ACS Nano, 2009, 3, 478-482.	14.6	228
60	Anions induced evolution of Co ₃ X ₄ (X = O, S, Se) as sodium-ion anodes: The influences of electronic structure, morphology, electrochemical property. Nano Energy, 2018, 48, 617-629.	16.0	227
61	Ultrastable and High-Performance Zn/VO ₂ Battery Based on a Reversible Single-Phase Reaction. Chemistry of Materials, 2019, 31, 699-706.	6.7	227
62	Activation of Sodium Storage Sites in Prussian Blue Analogues via Surface Etching. Nano Letters, 2017, 17, 4713-4718.	9.1	225
63	Monodisperse and homogeneous SiO ₂ /C microspheres: A promising high-capacity and durable anode material for lithium-ion batteries. Energy Storage Materials, 2018, 13, 112-118.	18.0	222
64	Smart construction of three-dimensional hierarchical tubular transition metal oxide core/shell heterostructures with high-capacity and long-cycle-life lithium storage. Nano Energy, 2015, 12, 437-446.	16.0	220
65	Advances in Structure and Property Optimizations of Battery Electrode Materials. Joule, 2017, 1, 522-547.	24.0	219
66	Finely Crafted 3D Electrodes for Dendrite-Free and High-Performance Flexible Fiber-Shaped Zn-Co Batteries. Advanced Functional Materials, 2018, 28, 1802016.	14.9	216
67	Defect-Rich Soft Carbon Porous Nanosheets for Fast and High-Capacity Sodium-Ion Storage. Advanced Energy Materials, 2019, 9, 1803260.	19.5	214
68	Vanadium Sulfide on Reduced Graphene Oxide Layer as a Promising Anode for Sodium Ion Battery. ACS Applied Materials & Interfaces, 2015, 7, 20902-20908.	8.0	210
69	Nanoscroll Buffered Hybrid Nanostructural VO ₂ (B) Cathodes for High-Rate and Long-Life Lithium Storage. Advanced Materials, 2013, 25, 2969-2973.	21.0	207
70	Cucumber-Like V ₂ O ₅ /poly(3,4-ethylenedioxythiophene)&MnO ₂ Nanowires with Enhanced Electrochemical Cyclability. Nano Letters, 2013, 13, 740-745.	9.1	201
71	Ultrathin MoO ₂ nanosheets for superior lithium storage. Nano Energy, 2015, 11, 129-135.	16.0	199
72	Sodium-based batteries: from critical materials to battery systems. Journal of Materials Chemistry A, 2019, 7, 9406-9431.	10.3	199

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73	Comprehensive Understandings into Complete Reconstruction of Precatalysts: Synthesis, Applications, and Characterizations. <i>Advanced Materials</i> , 2021, 33, e2007344.	21.0	198
74	Double-shell Li-rich layered oxide hollow microspheres with sandwich-like carbon@spinel@layered@spinel@carbon shells as high-rate lithium ion battery cathode. <i>Nano Energy</i> , 2019, 59, 184-196.	16.0	194
75	Ultrafine Nickel@Nanoparticle@Enabled SiO ₂ Hierarchical Hollow Spheres for High-Performance Lithium Storage. <i>Advanced Functional Materials</i> , 2018, 28, 1704561.	14.9	193
76	Bottom-Up Confined Synthesis of Nanorod@Nanotube Structured Sb@N@C for Durable Lithium and Sodium Storage. <i>Advanced Energy Materials</i> , 2018, 8, 1703237.	19.5	192
77	Hydrated vanadium pentoxide with superior sodium storage capacity. <i>Journal of Materials Chemistry A</i> , 2015, 3, 8070-8075.	10.3	190
78	Nanowire Templated Semihollow Bicontinuous Graphene Scrolls: Designed Construction, Mechanism, and Enhanced Energy Storage Performance. <i>Journal of the American Chemical Society</i> , 2013, 135, 18176-18182.	13.7	187
79	Synergistic Effect of Hierarchical Nanostructured MoO ₂ /Co(OH) ₂ with Largely Enhanced Pseudocapacitor Cyclability. <i>Nano Letters</i> , 2013, 13, 5685-5691.	9.1	186
80	Metal-organic framework derived carbon-confined Ni ₂ P nanocrystals supported on graphene for an efficient oxygen evolution reaction. <i>Chemical Communications</i> , 2017, 53, 8372-8375.	4.1	184
81	Three-Dimensional Crumpled Reduced Graphene Oxide/MoS ₂ Nanoflowers: A Stable Anode for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 12625-12630.	8.0	183
82	Magnesium storage performance and mechanism of CuS cathode. <i>Nano Energy</i> , 2018, 47, 210-216.	16.0	183
83	Fast Ionic Diffusion-Enabled Nanoflake Electrode by Spontaneous Electrochemical Pre-Intercalation for High-Performance Supercapacitor. <i>Scientific Reports</i> , 2013, 3, .	3.3	182
84	Vanadium Oxide Pillared by Interlayer Mg ²⁺ Ions and Water as Ultralong-Life Cathodes for Magnesium-Ion Batteries. <i>Chem</i> , 2019, 5, 1194-1209.	11.7	180
85	Reconstruction-Determined Alkaline Water Electrolysis at Industrial Temperatures. <i>Advanced Materials</i> , 2020, 32, e2001136.	21.0	177
86	A Novel Dendrite-Free Mn ²⁺ /Zn ²⁺ Hybrid Battery with 2.3 V Voltage Window and 11000@Cycle Lifespan. <i>Advanced Energy Materials</i> , 2019, 9, 1901469.	19.5	175
87	Interlayer@Spacing@Regulated VOPO ₄ Nanosheets with Fast Kinetics for High-Capacity and Durable Rechargeable Magnesium Batteries. <i>Advanced Materials</i> , 2018, 30, e1801984.	21.0	171
88	Lithium Deficiencies Engineering in Li-Rich Layered Oxide Li _{1.098} Mn _{0.533} Ni _{0.113} Co _{0.138} O ₂ for High-Stability Cathode. <i>Journal of the American Chemical Society</i> , 2019, 141, 10876-10882.	13.7	171
89	Realizing Three-Electron Redox Reactions in NASICON-Structured Na ₃ MnTi(PO ₄) ₃ for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1803436.	19.5	171
90	Engineering Oxygen Vacancies in a Polysulfide-Blocking Layer with Enhanced Catalytic Ability. <i>Advanced Materials</i> , 2020, 32, e1907444.	21.0	171

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91	Graphene decorated vanadium oxide nanowire aerogel for long-cycle-life magnesium battery cathodes. <i>Nano Energy</i> , 2015, 18, 265-272.	16.0	170
92	Nanoflake-Assembled Hierarchical Na ₃ V ₂ (PO ₄) ₃ /C Microflowers: Superior Li Storage Performance and Insertion/Extraction Mechanism. <i>Advanced Energy Materials</i> , 2015, 5, 1401963.	19.5	169
93	Nanowires in Energy Storage Devices: Structures, Synthesis, and Applications. <i>Advanced Energy Materials</i> , 2018, 8, 1802369.	19.5	169
94	Recent Advances and Prospects of Cathode Materials for Rechargeable Aqueous Zinc-Ion Batteries. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900387.	3.7	169
95	Dielectric spectroscopy studies on (PVP+PVA) polyblend film. <i>Microelectronic Engineering</i> , 2006, 83, 281-285.	2.4	168
96	Mesoporous NiS ₂ Nanospheres Anode with Pseudocapacitance for High-Rate and Long-Life Sodium-Ion Battery. <i>Small</i> , 2017, 13, 1701744.	10.0	168
97	Vanadate-Based Materials for Li-Ion Batteries: The Search for Anodes for Practical Applications. <i>Advanced Energy Materials</i> , 2019, 9, 1803324.	19.5	168
98	All-flexible lithium ion battery based on thermally-etched porous carbon cloth anode and cathode. <i>Nano Energy</i> , 2016, 26, 446-455.	16.0	167
99	Novel layered iron vanadate cathode for high-capacity aqueous rechargeable zinc batteries. <i>Chemical Communications</i> , 2018, 54, 4041-4044.	4.1	167
100	Yolk@Shell SiO ₂ /C microspheres with semi-graphitic carbon coating on the exterior and interior surfaces for durable lithium storage. <i>Energy Storage Materials</i> , 2019, 19, 299-305.	18.0	167
101	Three-dimensional graphene framework with ultra-high sulfur content for a robust lithium-sulfur battery. <i>Nano Research</i> , 2016, 9, 240-248.	10.4	165
102	Upraising the O 2p Orbital by Integrating Ni with MoO ₂ for Accelerating Hydrogen Evolution Kinetics. <i>ACS Catalysis</i> , 2019, 9, 2275-2285.	11.2	165
103	Aqueous Zn//Zn(CF ₃ SO ₃) ₂ /Na ₃ V ₂ (PO ₄) ₃ batteries with simultaneous Zn ²⁺ /Na ⁺ intercalation/de-intercalation. <i>Nano Energy</i> , 2019, 58, 492-498.	16.0	161
104	Identification of Phase Control of Carbon-Confined Nb ₂ O ₅ Nanoparticles toward High-Performance Lithium Storage. <i>Advanced Energy Materials</i> , 2019, 9, 1802695.	19.5	161
105	Stable Alkali Metal Ion Intercalation Compounds as Optimized Metal Oxide Nanowire Cathodes for Lithium Batteries. <i>Nano Letters</i> , 2015, 15, 2180-2185.	9.1	160
106	The synergetic interaction between LiNO ₃ and lithium polysulfides for suppressing shuttle effect of lithium-sulfur batteries. <i>Energy Storage Materials</i> , 2018, 11, 24-29.	18.0	160
107	Hierarchical zigzag Na _{1.25} V ₃ O ₈ nanowires with topotactically encoded superior performance for sodium-ion battery cathodes. <i>Energy and Environmental Science</i> , 2015, 8, 1267-1275.	30.8	158
108	Sodium Vanadium Fluorophosphates (NVOPF) Array Cathode Designed for High-Rate Full Sodium Ion Storage Device. <i>Advanced Energy Materials</i> , 2018, 8, 1800058.	19.5	157

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109	Heterostructured Bi ₂ S ₃ â€Bi ₂ O ₃ Nanosheets with a Built-In Electric Field for Improved Sodium Storage. ACS Applied Materials & Interfaces, 2018, 10, 7201-7207.	8.0	153
110	Building better zinc-ion batteries: A materials perspective. EnergyChem, 2019, 1, 100022.	19.1	153
111	Recent Advances in Rational Electrode Designs for High-Performance Alkaline Rechargeable Batteries. Advanced Functional Materials, 2019, 29, 1807847.	14.9	152
112	Novel K ₃ V ₂ (PO ₄) ₃ /C Bundled Nanowires as Superior Sodium-ion Battery Electrode with Ultrahigh Cycling Stability. Advanced Energy Materials, 2015, 5, 1500716.	19.5	150
113	Polycrystalline soft carbon semi-hollow microrods as anode for advanced K-ion full batteries. Nanoscale, 2017, 9, 18216-18222.	5.6	150
114	Built-in oriented electric field facilitating durable Zn MnO ₂ battery. Nano Energy, 2019, 62, 79-84.	16.0	150
115	Field Effect Enhanced Hydrogen Evolution Reaction of MoS ₂ Nanosheets. Advanced Materials, 2017, 29, 1604464.	21.0	148
116	Oxygen Vacancy-Determined Highly Efficient Oxygen Reduction in NiCo ₂ O ₄ /Hollow Carbon Spheres. ACS Applied Materials & Interfaces, 2018, 10, 16410-16417.	8.0	148
117	Rational growth of branched nanowire heterostructures with synthetically encoded properties and function. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 12212-12216.	7.1	144
118	Single Nanowire Electrochemical Devices. Nano Letters, 2010, 10, 4273-4278.	9.1	143
119	Self-Organized 3D Porous Graphene Dual-Doped with Biomass-Sponsored Nitrogen and Sulfur for Oxygen Reduction and Evolution. ACS Applied Materials & Interfaces, 2016, 8, 29408-29418.	8.0	143
120	Graphene nanowires anchored to 3D graphene foam via self-assembly for high performance Li and Na ion storage. Nano Energy, 2017, 37, 108-117.	16.0	143
121	Vanadium-Based Cathode Materials for Rechargeable Multivalent Batteries: Challenges and Opportunities. Electrochemical Energy Reviews, 2018, 1, 169-199.	25.5	142
122	Single Î²-AgVO ₃ Nanowire H ₂ S Sensor. Nano Letters, 2010, 10, 2604-2608.	9.1	141
123	Integrated Intercalation-Based and Interfacial Sodium Storage in Graphene-Wrapped Porous Li ₄ Ti ₅ O ₁₂ Nanofibers Composite Aerogel. Advanced Energy Materials, 2016, 6, 1600322.	19.5	141
124	Heterogeneous branched core-shell SnO ₂ -PANI nanorod arrays with mechanical integrity and three dimensional electron transport for lithium batteries. Nano Energy, 2014, 8, 196-204.	16.0	140
125	Self-adaptive strain-relaxation optimization for high-energy lithium storage material through crumpling of graphene. Nature Communications, 2014, 5, 4565.	12.8	139
126	Ultralong Sb ₂ Se ₃ Nanowire-Based Free-Standing Membrane Anode for Lithium/Sodium Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 35219-35226.	8.0	139

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127	Carbon-coated hierarchical NaTi ₂ (PO ₄) ₃ mesoporous microflowers with superior sodium storage performance. <i>Nano Energy</i> , 2016, 28, 224-231.	16.0	139
128	Zn ²⁺ Pre-Intercalation Stabilizes the Tunnel Structure of MnO ₂ Nanowires and Enables Zinc-Ion Hybrid Supercapacitor of Battery-Level Energy Density. <i>Small</i> , 2020, 16, e2000091.	10.0	139
129	Deep Reconstruction of Nickel-Based Precatalysts for Water Oxidation Catalysis. <i>ACS Energy Letters</i> , 2019, 4, 2585-2592.	17.4	137
130	Alkaline earth metal vanadates as sodium-ion battery anodes. <i>Nature Communications</i> , 2017, 8, 460.	12.8	136
131	Interwoven Three-Dimensional Architecture of Cobalt Oxide Nanobrush-Graphene@Ni _x Co _{2-x} (OH) _{6-x} for High-Performance Supercapacitors. <i>Nano Letters</i> , 2015, 15, 2037-2044.	9.1	134
132	Field-Effect Tuned Adsorption Dynamics of VSe ₂ Nanosheets for Enhanced Hydrogen Evolution Reaction. <i>Nano Letters</i> , 2017, 17, 4109-4115.	9.1	134
133	±-MoO ₃ - by plasma etching with improved capacity and stabilized structure for lithium storage. <i>Nano Energy</i> , 2018, 49, 555-563.	16.0	133
134	Carbon-MEMS-Based Alternating Stacked MoS ₂ @rGO-CNT Micro-Supercapacitor with High Capacitance and Energy Density. <i>Small</i> , 2017, 13, 1700639.	10.0	132
135	Air-Stable Porous Fe ₂ N Encapsulated in Carbon Microboxes with High Volumetric Lithium Storage Capacity and a Long Cycle Life. <i>Nano Letters</i> , 2017, 17, 5740-5746.	9.1	132
136	Nanostructured Conversion-Type Negative Electrode Materials for Low-Cost and High-Performance Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1804458.	14.9	132
137	Porous carbonized graphene-embedded fungus film as an interlayer for superior Li-S batteries. <i>Nano Energy</i> , 2015, 17, 224-232.	16.0	130
138	Molybdenum oxide nanowires: synthesis & properties. <i>Materials Today</i> , 2011, 14, 346-353.	14.2	125
139	Li ₃ V(MoO ₄) ₃ as a novel electrode material with good lithium storage properties and improved initial coulombic efficiency. <i>Nano Energy</i> , 2018, 44, 272-278.	16.0	125
140	Reducing frictional power losses and improving the scuffing resistance in automotive engines using hybrid nanomaterials as nano-lubricant additives. <i>Wear</i> , 2016, 364-365, 270-281.	3.1	124
141	Prussian White Hierarchical Nanotubes with Surface-Controlled Charge Storage for Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1806405.	14.9	124
142	Energy storage through intercalation reactions: electrodes for rechargeable batteries. <i>National Science Review</i> , 2017, 4, 26-53.	9.5	122
143	Introduction: 1D Nanomaterials/Nanowires. <i>Chemical Reviews</i> , 2019, 119, 8955-8957.	47.7	121
144	Bilayered Mg _{0.25} V ₂ O ₅ ·H ₂ O as a Stable Cathode for Rechargeable Ca-Ion Batteries. <i>ACS Energy Letters</i> , 2019, 4, 1328-1335.	17.4	121

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