

Li-Qiang Mai

List of Publications by Year in descending order

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708
papers

66,791
citations

344

133
h-index

1260

220
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722
all docs

722
docs citations

722
times ranked

35136
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanostructured Metal Oxides and Sulfides for Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2017, 29, 1601759.	24.1	1,244
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.	24.1	1,170
3	Hierarchical $MnMoO_4/CoMoO_4$ heterostructured nanowires with enhanced supercapacitor performance. <i>Nature Communications</i> , 2011, 2, 381.	13.2	1,060
4	Layered V_2O_5 Nanosheet-Based Aqueous Zn Ion Battery Cathode. <i>Advanced Energy Materials</i> , 2017, 7, 1601920.	22.1	1,029
5	Na^+ intercalation pseudocapacitance in graphene-coupled titanium oxide enabling ultra-fast sodium storage and long-term cycling. <i>Nature Communications</i> , 2015, 6, 6929.	13.2	992
6	General Oriented Formation of Carbon Nanotubes from Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2017, 139, 8212-8221.	14.6	811
7	Silicon oxides: a promising family of anode materials for lithium-ion batteries. <i>Chemical Society Reviews</i> , 2019, 48, 285-309.	40.3	755
8	Manipulating Adsorption-Insertion Mechanisms in Nanostructured Carbon Materials for High-Efficiency Sodium Ion Storage. <i>Advanced Energy Materials</i> , 2017, 7, 1700403.	22.1	710
9	Sodium Ion Stabilized Vanadium Oxide Nanowire Cathode for High-Performance Zinc-Ion Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1702463.	22.1	687
10	Porous One-Dimensional Nanomaterials: Design, Fabrication and Applications in Electrochemical Energy Storage. <i>Advanced Materials</i> , 2017, 29, 1602300.	24.1	654
11	Synergistic interaction between redox-active electrolyte and binder-free functionalized carbon for ultrahigh supercapacitor performance. <i>Nature Communications</i> , 2013, 4, 2923.	13.2	649
12	Nanowire Electrodes for Electrochemical Energy Storage Devices. <i>Chemical Reviews</i> , 2014, 114, 11828-11862.	51.5	635
13	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.	9.5	607
14	Graphene Scroll-Coated MnO_2 Nanowires as High-Performance Cathode Materials for Aqueous Zn-Ion Battery. <i>Small</i> , 2018, 14, e1703850.	11.1	607
15	Low-crystalline iron oxide hydroxide nanoparticle anode for high-performance supercapacitors. <i>Nature Communications</i> , 2017, 8, 14264.	13.2	606
16	Electrospun Ultralong Hierarchical Vanadium Oxide Nanowires with High Performance for Lithium Ion Batteries. <i>Nano Letters</i> , 2010, 10, 4750-4755.	9.5	557
17	Intricate Hollow Structures: Controlled Synthesis and Applications in Energy Storage and Conversion. <i>Advanced Materials</i> , 2017, 29, 1602914.	24.1	537
18	Ultrathin Surface Coating Enables Stabilized Zinc Metal Anode. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800848.	4.1	510

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19	Diethyl ether as self-healing electrolyte additive enabled long-life rechargeable aqueous zinc ion batteries. <i>Nano Energy</i> , 2019, 62, 275-281.	16.5	506
20	High-Performance Aqueous Zinc-Ion Battery Based on Layered H_2VO_8 Nanowire Cathode. <i>Small</i> , 2017, 13, 1702551.	11.1	497
21	Effect of Carbon Matrix Dimensions on the Electrochemical Properties of $\text{Na}_3\text{V}_2(\text{PO}_4)_3$ Nanograins for High-Performance Symmetric Sodium-Ion Batteries. <i>Advanced Materials</i> , 2014, 26, 3545-3553.	24.1	484
22	Interfaces in Solid-State Lithium Batteries. <i>Joule</i> , 2018, 2, 1991-2015.	24.7	482
23	Self-smoothing anode for achieving high-energy lithium metal batteries under realistic conditions. <i>Nature Nanotechnology</i> , 2019, 14, 594-601.	30.5	482
24	Recent Developments on and Prospects for Electrode Materials with Hierarchical Structures for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1701415.	22.1	465
25	Zn_2O_5 Aqueous Hybrid-Ion Battery with High Voltage Platform and Long Cycle Life. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 42717-42722.	8.3	426
26	Earth Abundant Fe/Mn-Based Layered Oxide Interconnected Nanowires for Advanced K-Ion Full Batteries. <i>Nano Letters</i> , 2017, 17, 544-550.	9.5	376
27	General synthesis of complex nanotubes by gradient electrospinning and controlled pyrolysis. <i>Nature Communications</i> , 2015, 6, 7402.	13.2	375
28	A New View of Supercapacitors: Integrated Supercapacitors. <i>Advanced Energy Materials</i> , 2019, 9, 1901081.	22.1	354
29	Lithiophilic-lithiophobic gradient interfacial layer for a highly stable lithium metal anode. <i>Nature Communications</i> , 2018, 9, 3729.	13.2	353
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.	11.1	350
31	Advances in metal-organic framework coatings: versatile synthesis and broad applications. <i>Chemical Society Reviews</i> , 2020, 49, 3142-3186.	40.3	350
32	Manganese Oxide/Carbon Yolk-Shell Nanorod Anodes for High Capacity Lithium Batteries. <i>Nano Letters</i> , 2015, 15, 738-744.	9.5	349
33	Multicomponent Hierarchical Cu-Doped $\text{NiCo}_2\text{LDH}/\text{CuO}$ Double Arrays for Ultralong-Life Hybrid Fiber Supercapacitor. <i>Advanced Functional Materials</i> , 2019, 29, 1809004.	16.4	346
34	Nanowires for Electrochemical Energy Storage. <i>Chemical Reviews</i> , 2019, 119, 11042-11109.	51.5	337
35	Materials Design for High-Safety Sodium-Ion Battery. <i>Advanced Energy Materials</i> , 2021, 11, 2000974.	22.1	333
36	3D self-supported nanopine forest-like $\text{Co}_3\text{O}_4@\text{CoMoO}_4$ core-shell architectures for high-energy solid state supercapacitors. <i>Nano Energy</i> , 2016, 19, 222-233.	16.5	329

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37	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.	16.5	329
38	MoB/gâ€C ₃ /N ₄ Interface Materials as a Schottky Catalyst to Boost Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 496-500.	14.7	322
39	Hierarchical mesoporous perovskite La ₀ â€ _{0.5} Sr _{0.5} CoO _{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.	7.6	320
40	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.	32.2	320
41	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.	24.1	317
42	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.	6.1	313
43	Vanadiumâ€Based Nanomaterials: A Promising Family for Emerging Metalâ€Ion Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 1904398.	16.4	301
44	Porous Nickelâ€Iron Selenide Nanosheets as Highly Efficient Electrocatalysts for Oxygen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 19386-19392.	8.3	297
45	Interface Engineering for Highâ€Performance Topâ€Gated MoS ₂ Fieldâ€Effect Transistors. <i>Advanced Materials</i> , 2014, 26, 6255-6261.	24.1	284
46	Coâ€Construction of Sulfur Vacancies and Heterojunctions in Tungsten Disulfide to Induce Fast Electronic/Ionic Diffusion Kinetics for Sodiumâ€Ion Batteries. <i>Advanced Materials</i> , 2020, 32, e2005802.	24.1	284
47	Low-Crystalline Bimetallic Metalâ€Organic Framework Electrocatalysts with Rich Active Sites for Oxygen Evolution. <i>ACS Energy Letters</i> , 2019, 4, 285-292.	18.3	283
48	Copperâ€Nickel Nitride Nanosheets as Efficient Bifunctional Catalysts for Hydrazineâ€Assisted Electrolytic Hydrogen Production. <i>Advanced Energy Materials</i> , 2019, 9, 1900390.	22.1	266
49	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.	9.5	263
50	A 3D Nitrogenâ€Doped Graphene/TiN Nanowires Composite as a Strong Polysulfide Anchor for Lithiumâ€Sulfur Batteries with Enhanced Rate Performance and High Areal Capacity. <i>Advanced Materials</i> , 2018, 30, e1804089.	24.1	261
51	VO ₂ Nanowires Assembled into Hollow Microspheres for High-Rate and Long-Life Lithium Batteries. <i>Nano Letters</i> , 2014, 14, 2873-2878.	9.5	247
52	Activation of Sodium Storage Sites in Prussian Blue Analogues via Surface Etching. <i>Nano Letters</i> , 2017, 17, 4713-4718.	9.5	245
53	NiSe ₂ Nanooctahedra as an Anode Material for High-Rate and Long-Life Sodium-Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 311-316.	8.3	243
54	Self-sacrificed synthesis of three-dimensional Na ₃ V ₂ (PO ₄) ₃ nanofiber network for high-rate sodiumâ€ion full batteries. <i>Nano Energy</i> , 2016, 25, 145-153.	16.5	242

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55	Ultrastable and High-Performance Zn/VO ₂ Battery Based on a Reversible Single-Phase Reaction. <i>Chemistry of Materials</i> , 2019, 31, 699-706.	7.0	242
56	Anions induced evolution of Co ₃ X ₄ (X ⁻ = O, S, Se) as sodium-ion anodes: The influences of electronic structure, morphology, electrochemical property. <i>Nano Energy</i> , 2018, 48, 617-629.	16.5	238
57	From MoO ₃ Nanobelts to MoO ₂ Nanorods: Structure Transformation and Electrical Transport. <i>ACS Nano</i> , 2009, 3, 478-482.	15.2	235
58	Free-standing kinked nanowire transistor probes for targeted intracellular recording in three dimensions. <i>Nature Nanotechnology</i> , 2014, 9, 142-147.	30.5	235
59	Advances in Structure and Property Optimizations of Battery Electrode Materials. <i>Joule</i> , 2017, 1, 522-547.	24.7	235
60	One-Pot Synthesized Bicontinuous Hierarchical Li ₃ V ₂ (PO ₄) ₃ /C Mesoporous Nanowires for High-Rate and Ultralong-Life Lithium-ion Batteries. <i>Nano Letters</i> , 2014, 14, 1042-1048.	9.5	233
61	Monodisperse and homogeneous SiO ₂ /C microspheres: A promising high-capacity and durable anode material for lithium-ion batteries. <i>Energy Storage Materials</i> , 2018, 13, 112-118.	18.4	233
62	Defect-Rich Soft Carbon Porous Nanosheets for Fast and High-Capacity Sodium-Ion Storage. <i>Advanced Energy Materials</i> , 2019, 9, 1803260.	22.1	231
63	Multiscale Graphene-Based Materials for Applications in Sodium Ion Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1803342.	22.1	228
64	Smart construction of three-dimensional hierarchical tubular transition metal oxide core/shell heterostructures with high-capacity and long-cycle-life lithium storage. <i>Nano Energy</i> , 2015, 12, 437-446.	16.5	225
65	Finely Crafted 3D Electrodes for Dendrite-Free and High-Performance Flexible Fiber-Shaped Zn-Co Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1802016.	16.4	222
66	Comprehensive Understandings into Complete Reconstruction of Precatalysts: Synthesis, Applications, and Characterizations. <i>Advanced Materials</i> , 2021, 33, e2007344.	24.1	222
67	Vanadium Sulfide on Reduced Graphene Oxide Layer as a Promising Anode for Sodium Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 20902-20908.	8.3	216
68	Sodium-based batteries: from critical materials to battery systems. <i>Journal of Materials Chemistry A</i> , 2019, 7, 9406-9431.	10.5	210
69	Nanoscroll Buffered Hybrid Nanostructural VO ₂ (B) Cathodes for High-Rate and Long-Life Lithium Storage. <i>Advanced Materials</i> , 2013, 25, 2969-2973.	24.1	209
70	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.	16.5	208
71	Reconstruction-Determined Alkaline Water Electrolysis at Industrial Temperatures. <i>Advanced Materials</i> , 2020, 32, e2001136.	24.1	207
72	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.	12.2	204

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73	Cucumber-Like V_2O_5 /poly(3,4-ethylenedioxythiophene)&MnO ₂ Nanowires with Enhanced Electrochemical Cyclability. Nano Letters, 2013, 13, 740-745.	9.5	201
74	Ultrathin MoO ₂ nanosheets for superior lithium storage. Nano Energy, 2015, 11, 129-135.	16.5	201
75	Hydrated vanadium pentoxide with superior sodium storage capacity. Journal of Materials Chemistry A, 2015, 3, 8070-8075.	10.5	200
76	Magnesium storage performance and mechanism of CuS cathode. Nano Energy, 2018, 47, 210-216.	16.5	200
77	Bottom-Up Confined Synthesis of Nanorod-in-Nanotube Structured Sb@N for Durable Lithium and Sodium Storage. Advanced Energy Materials, 2018, 8, 1703237.	22.1	199
78	Ultrafine Nickel-Nanoparticle-Enabled SiO ₂ Hierarchical Hollow Spheres for High-Performance Lithium Storage. Advanced Functional Materials, 2018, 28, 1704561.	16.4	198
79	Nanowire Templated Semihollow Bicontinuous Graphene Scrolls: Designed Construction, Mechanism, and Enhanced Energy Storage Performance. Journal of the American Chemical Society, 2013, 135, 18176-18182.	14.6	193
80	Recent Advances and Prospects of Cathode Materials for Rechargeable Aqueous Zinc-Ion Batteries. Advanced Materials Interfaces, 2019, 6, 1900387.	4.1	192
81	Metal-organic framework derived carbon-confined Ni ₂ P nanocrystals supported on graphene for an efficient oxygen evolution reaction. Chemical Communications, 2017, 53, 8372-8375.	4.2	191
82	A Novel Dendrite-Free Mn ²⁺ /Zn ²⁺ Hybrid Battery with 2.3 V Voltage Window and 11000-Cycle Lifespan. Advanced Energy Materials, 2019, 9, 1901469.	22.1	191
83	Synergistic Effect of Hierarchical Nanostructured MoO ₂ /Co(OH) ₂ with Largely Enhanced Pseudocapacitor Cyclability. Nano Letters, 2013, 13, 5685-5691.	9.5	189
84	Three-Dimensional Crumpled Reduced Graphene Oxide/MoS ₂ Nanoflowers: A Stable Anode for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2015, 7, 12625-12630.	8.3	189
85	Realizing Three-Electron Redox Reactions in NASICON-Structured Na ₃ MnTi(PO ₄) ₃ for Sodium-Ion Batteries. Advanced Energy Materials, 2019, 9, 1803436.	22.1	188
86	Interlayer-Spacing-Regulated VOPO ₄ Nanosheets with Fast Kinetics for High-Capacity and Durable Rechargeable Magnesium Batteries. Advanced Materials, 2018, 30, e1801984.	24.1	186
87	Fast Ionic Diffusion-Enabled Nanoflake Electrode by Spontaneous Electrochemical Pre-Intercalation for High-Performance Supercapacitor. Scientific Reports, 2013, 3, .	3.5	185
88	Nanowires in Energy Storage Devices: Structures, Synthesis, and Applications. Advanced Energy Materials, 2018, 8, 1802369.	22.1	185
89	Yolk@Shell SiO ₂ /C microspheres with semi-graphitic carbon coating on the exterior and interior surfaces for durable lithium storage. Energy Storage Materials, 2019, 19, 299-305.	18.4	185
90	Engineering Oxygen Vacancies in a Polysulfide-Blocking Layer with Enhanced Catalytic Ability. Advanced Materials, 2020, 32, e1907444.	24.1	185

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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.	16.5	184
92	Lithium Deficiencies Engineering in Li-Rich Layered Oxide $\text{Li}_{1.098}\text{Mn}_{0.533}\text{Ni}_{0.113}\text{Co}_{0.138}\text{O}_2$ for High-Stability Cathode. <i>Journal of the American Chemical Society</i> , 2019, 141, 10876-10882.	14.6	184
93	Mesoporous NiS_2 Nanospheres Anode with Pseudocapacitance for High-Rate and Long-Life Sodium-Ion Battery. <i>Small</i> , 2017, 13, 1701744.	11.1	181
94	Vanadate-Based Materials for Li-Ion Batteries: The Search for Anodes for Practical Applications. <i>Advanced Energy Materials</i> , 2019, 9, 1803324.	22.1	178
95	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.	18.4	177
96	Upraising the O 2p Orbital by Integrating Ni with MoO_2 for Accelerating Hydrogen Evolution Kinetics. <i>ACS Catalysis</i> , 2019, 9, 2275-2285.	11.7	177
97	Aqueous $\text{Zn}/\text{Zn}(\text{CF}_3\text{SO}_3)_2/\text{Na}_3\text{V}_2(\text{PO}_4)_3$ batteries with simultaneous $\text{Zn}^{2+}/\text{Na}^+$ intercalation/de-intercalation. <i>Nano Energy</i> , 2019, 58, 492-498.	16.5	176
98	Novel layered iron vanadate cathode for high-capacity aqueous rechargeable zinc batteries. <i>Chemical Communications</i> , 2018, 54, 4041-4044.	4.2	175
99	Dielectric spectroscopy studies on (PVP+PVA) polyblend film. <i>Microelectronic Engineering</i> , 2006, 83, 281-285.	2.5	174
100	Three-dimensional graphene framework with ultra-high sulfur content for a robust lithium-sulfur battery. <i>Nano Research</i> , 2016, 9, 240-248.	10.6	173
101	Nanoflake-Assembled Hierarchical $\text{Na}_3\text{V}_2(\text{PO}_4)_3/\text{C}$ Microflowers: Superior Li Storage Performance and Insertion/Extraction Mechanism. <i>Advanced Energy Materials</i> , 2015, 5, 1401963.	22.1	172
102	Ultrahigh Stable Methanol Oxidation Enabled by a High Hydroxyl Concentration on Pt Clusters/MXene Interfaces. <i>Journal of the American Chemical Society</i> , 2022, 144, 15529-15538.	14.6	172
103	Building better zinc-ion batteries: A materials perspective. <i>EnergyChem</i> , 2019, 1, 100022.	20.0	171
104	All-flexible lithium ion battery based on thermally-etched porous carbon cloth anode and cathode. <i>Nano Energy</i> , 2016, 26, 446-455.	16.5	170
105	Identification of Phase Control of Carbon-Confined Nb_2O_5 Nanoparticles toward High-Performance Lithium Storage. <i>Advanced Energy Materials</i> , 2019, 9, 1802695.	22.1	169
106	Stable Alkali Metal Ion Intercalation Compounds as Optimized Metal Oxide Nanowire Cathodes for Lithium Batteries. <i>Nano Letters</i> , 2015, 15, 2180-2185.	9.5	168
107	Sodium Vanadium Fluorophosphates (NVOPF) Array Cathode Designed for High-Rate Full Sodium Ion Storage Device. <i>Advanced Energy Materials</i> , 2018, 8, 1800058.	22.1	167
108	Heterostructured Bi_2S_3 - Bi_2O_3 Nanosheets with a Built-In Electric Field for Improved Sodium Storage. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 7201-7207.	8.3	162

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109	Built-in oriented electric field facilitating durable Zn MnO ₂ battery. Nano Energy, 2019, 62, 79-84.	16.5	162
110	Hierarchical zigzag Na _{1.25} V ₃ O ₈ nanowires with topotactically encoded superior performance for sodium-ion battery cathodes. Energy and Environmental Science, 2015, 8, 1267-1275.	32.2	159
111	Oxygen Vacancy-Determined Highly Efficient Oxygen Reduction in NiCo ₂ O ₄ /Hollow Carbon Spheres. ACS Applied Materials & Interfaces, 2018, 10, 16410-16417.	8.3	159
112	Recent Advances in Rational Electrode Designs for High-Performance Alkaline Rechargeable Batteries. Advanced Functional Materials, 2019, 29, 1807847.	16.4	159
113	Field Effect Enhanced Hydrogen Evolution Reaction of MoS ₂ Nanosheets. Advanced Materials, 2017, 29, 1604464.	24.1	158
114	Polycrystalline soft carbon semi-hollow microrods as anode for advanced K-ion full batteries. Nanoscale, 2017, 9, 18216-18222.	5.8	158
115	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.	22.1	157
116	Zn ²⁺ Pre-Intercalation Stabilizes the Tunnel Structure of MnO ₂ Nanowires and Enables Zinc-Ion Hybrid Supercapacitor of Battery-Level Energy Density. Small, 2020, 16, e2000091.	11.1	154
117	Deep Reconstruction of Nickel-Based Precatalysts for Water Oxidation Catalysis. ACS Energy Letters, 2019, 4, 2585-2592.	18.3	153
118	Vanadium-Based Cathode Materials for Rechargeable Multivalent Batteries: Challenges and Opportunities. Electrochemical Energy Reviews, 2018, 1, 169-199.	26.2	152
119	Eutectic Electrolyte with Unique Solvation Structure for High-Performance Zinc-Ion Batteries. Angewandte Chemie - International Edition, 2022, 61, .	14.7	151
120	Single Î ² -AgVO ₃ Nanowire H ₂ S Sensor. Nano Letters, 2010, 10, 2604-2608.	9.5	148
121	Graphene nanowires anchored to 3D graphene foam via self-assembly for high performance Li and Na ion storage. Nano Energy, 2017, 37, 108-117.	16.5	146
122	Nanostructured Conversion-Type Negative Electrode Materials for Low-Cost and High-Performance Sodium-Ion Batteries. Advanced Functional Materials, 2018, 28, 1804458.	16.4	146
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.	22.1	145
124	Carbon-MEMS-Based Alternating Stacked MoS ₂ @rGO-CNT Micro-Supercapacitor with High Capacitance and Energy Density. Small, 2017, 13, 1700639.	11.1	145
125	Single Nanowire Electrochemical Devices. Nano Letters, 2010, 10, 4273-4278.	9.5	144
126	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.	7.6	144

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127	Self-adaptive strain-relaxation optimization for high-energy lithium storage material through crumpling of graphene. <i>Nature Communications</i> , 2014, 5, 4565.	13.2	143
128	Heterogeneous branched core-shell SnO ₂ @PANI nanorod arrays with mechanical integrity and three dimensional electron transport for lithium batteries. <i>Nano Energy</i> , 2014, 8, 196-204.	16.5	143
129	Carbon-coated hierarchical NaTi ₂ (PO ₄) ₃ mesoporous microflowers with superior sodium storage performance. <i>Nano Energy</i> , 2016, 28, 224-231.	16.5	143
130	Self-Organized 3D Porous Graphene Dual-Doped with Biomass-Sponsored Nitrogen and Sulfur for Oxygen Reduction and Evolution. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 29408-29418.	8.3	143
131	Field-Effect Tuned Adsorption Dynamics of VSe ₂ Nanosheets for Enhanced Hydrogen Evolution Reaction. <i>Nano Letters</i> , 2017, 17, 4109-4115.	9.5	143
132	Prussian White Hierarchical Nanotubes with Surface-Controlled Charge Storage for Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1806405.	16.4	141
133	Ultralong Sb ₂ Se ₃ Nanowire-Based Free-Standing Membrane Anode for Lithium/Sodium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 35219-35226.	8.3	140
134	Alkaline earth metal vanadates as sodium-ion battery anodes. <i>Nature Communications</i> , 2017, 8, 460.	13.2	140
135	±-MoO ₃ - by plasma etching with improved capacity and stabilized structure for lithium storage. <i>Nano Energy</i> , 2018, 49, 555-563.	16.5	140
136	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.	3.3	138
137	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.	9.5	137
138	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.	18.3	137
139	Ligand Modulation of Active Sites to Promote Electrocatalytic Oxygen Evolution. <i>Advanced Materials</i> , 2022, 34, e2200270.	24.1	137
140	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.	9.5	134
141	Vanadium Oxide: Phase Diagrams, Structures, Synthesis, and Applications. <i>Chemical Reviews</i> , 2023, 123, 4353-4415.	51.5	134
142	Porous carbonized graphene-embedded fungus film as an interlayer for superior Li-S batteries. <i>Nano Energy</i> , 2015, 17, 224-232.	16.5	133
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447	Integration of VS ₂ nanosheets into carbon for high energy density micro-supercapacitor. <i>Journal of Alloys and Compounds</i> , 2020, 823, 151769.	5.7	33
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