

Li-Qiang Mai

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

587
papers

43,617
citations

110
h-index

181
g-index

616
ext. papers

52,638
ext. citations

12.9
avg, IF

8.05
L-index

#	Paper	IF	Citations
587	Nanostructured Metal Oxides and Sulfides for Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2017 , 29, 1601759	24	911
586	Hierarchical MnMoO(4)/CoMoO(4) heterostructured nanowires with enhanced supercapacitor performance. <i>Nature Communications</i> , 2011 , 2, 381	17.4	897
585	Na(+) intercalation pseudocapacitance in graphene-coupled titanium oxide enabling ultra-fast sodium storage and long-term cycling. <i>Nature Communications</i> , 2015 , 6, 6929	17.4	834
584	Water-Lubricated Intercalation in V O \cdot H O for High-Capacity and High-Rate Aqueous Rechargeable Zinc Batteries. <i>Advanced Materials</i> , 2018 , 30, 1703725	24	725
583	Layered VS ₂ Nanosheet-Based Aqueous Zn Ion Battery Cathode. <i>Advanced Energy Materials</i> , 2017 , 7, 1601920	21.8	680
582	General Oriented Formation of Carbon Nanotubes from Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2017 , 139, 8212-8221	16.4	598
581	Nanowire electrodes for electrochemical energy storage devices. <i>Chemical Reviews</i> , 2014 , 114, 11828-6268.1	26.8	552
580	Electrospun ultralong hierarchical vanadium oxide nanowires with high performance for lithium ion batteries. <i>Nano Letters</i> , 2010 , 10, 4750-5	11.5	505
579	Synergistic interaction between redox-active electrolyte and binder-free functionalized carbon for ultrahigh supercapacitor performance. <i>Nature Communications</i> , 2013 , 4, 2923	17.4	490
578	Manipulating Adsorption/Insertion Mechanisms in Nanostructured Carbon Materials for High-Efficiency Sodium Ion Storage. <i>Advanced Energy Materials</i> , 2017 , 7, 1700403	21.8	486
577	Lithiated MoO ₃ Nanobelts with Greatly Improved Performance for Lithium Batteries. <i>Advanced Materials</i> , 2007 , 19, 3712-3716	24	464
576	Sodium Ion Stabilized Vanadium Oxide Nanowire Cathode for High-Performance Zinc-Ion Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1702463	21.8	454
575	Low-crystalline iron oxide hydroxide nanoparticle anode for high-performance supercapacitors. <i>Nature Communications</i> , 2017 , 8, 14264	17.4	452
574	Silicon oxides: a promising family of anode materials for lithium-ion batteries. <i>Chemical Society Reviews</i> , 2019 , 48, 285-309	58.5	436
573	Porous One-Dimensional Nanomaterials: Design, Fabrication and Applications in Electrochemical Energy Storage. <i>Advanced Materials</i> , 2017 , 29, 1602300	24	435
572	Intricate Hollow Structures: Controlled Synthesis and Applications in Energy Storage and Conversion. <i>Advanced Materials</i> , 2017 , 29, 1602914	24	424
571	Highly Durable NaVO ₂ ·0.63H ₂ O Nanowire Cathode for Aqueous Zinc-Ion Battery. <i>Nano Letters</i> , 2018 , 18, 1758-1763	11.5	403

570	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, 3545-53	24	402
569	Graphene Scroll-Coated MnO Nanowires as High-Performance Cathode Materials for Aqueous Zn-Ion Battery. <i>Small</i> , 2018 , 14, e1703850	11	386
568	High-Performance Aqueous Zinc-Ion Battery Based on Layered H V O Nanowire Cathode. <i>Small</i> , 2017 , 13, 1702551	11	335
567	Recent Developments on and Prospects for Electrode Materials with Hierarchical Structures for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1701415	21.8	321
566	General synthesis of complex nanotubes by gradient electrospinning and controlled pyrolysis. <i>Nature Communications</i> , 2015 , 6, 7402	17.4	320
565	Manganese oxide/carbon yolk-shell nanorod anodes for high capacity lithium batteries. <i>Nano Letters</i> , 2015 , 15, 738-44	11.5	318
564	SnO ₂ Quantum Dots@Graphene Oxide as a High-Rate and Long-Life Anode Material for Lithium-Ion Batteries. <i>Small</i> , 2016 , 12, 588-94	11	307
563	Self-smoothing anode for achieving high-energy lithium metal batteries under realistic conditions. <i>Nature Nanotechnology</i> , 2019 , 14, 594-601	28.7	300
562	Earth Abundant Fe/Mn-Based Layered Oxide Interconnected Nanowires for Advanced K-Ion Full Batteries. <i>Nano Letters</i> , 2017 , 17, 544-550	11.5	297
561	Zn/VO Aqueous Hybrid-Ion Battery with High Voltage Platform and Long Cycle Life. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 42717-42722	9.5	293
560	Hierarchical mesoporous perovskite La _{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, 19569-74	11.5	288
559	Interfaces in Solid-State Lithium Batteries. <i>Joule</i> , 2018 , 2, 1991-2015	27.8	287
558	Ultrathin Surface Coating Enables Stabilized Zinc Metal Anode. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800848	4.6	276
557	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	17.1	262
556	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	17.1	239
555	Lithiophilic-lithiophobic gradient interfacial layer for a highly stable lithium metal anode. <i>Nature Communications</i> , 2018 , 9, 3729	17.4	236
554	Diethyl ether as self-healing electrolyte additive enabled long-life rechargeable aqueous zinc ion batteries. <i>Nano Energy</i> , 2019 , 62, 275-281	17.1	234
553	MoB/g-C N Interface Materials as a Schottky Catalyst to Boost Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 496-500	16.4	228

552	Interface engineering for high-performance top-gated MoS ₂ field-effect transistors. <i>Advanced Materials</i> , 2014 , 26, 6255-61	24	227
551	Porous Nickel-Iron Selenide Nanosheets as Highly Efficient Electrocatalysts for Oxygen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 19386-92	9.5	225
550	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	21.8	225
549	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, 6250-6	11.5	224
548	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, 1042-8	11.5	216
547	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	17.1	211
546	VO ₂ nanowires assembled into hollow microspheres for high-rate and long-life lithium batteries. <i>Nano Letters</i> , 2014 , 14, 2873-8	11.5	210
545	From MoO ₃ nanobelts to MoO ₂ nanorods: structure transformation and electrical transport. <i>ACS Nano</i> , 2009 , 3, 478-82	16.7	201
544	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	17.1	200
543	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	4.9	200
542	Free-standing kinked nanowire transistor probes for targeted intracellular recording in three dimensions. <i>Nature Nanotechnology</i> , 2014 , 9, 142-7	28.7	197
541	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	24	192
540	Nanoscroll buffered hybrid nanostructural VO ₂ (B) cathodes for high-rate and long-life lithium storage. <i>Advanced Materials</i> , 2013 , 25, 2969-73	24	186
539	Self-sacrificed synthesis of three-dimensional Na ₃ V ₂ (PO ₄) ₃ nanofiber network for high-rate sodium-ion full batteries. <i>Nano Energy</i> , 2016 , 25, 145-153	17.1	186
538	NiSe Nanooctahedra as an Anode Material for High-Rate and Long-Life Sodium-Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 311-316	9.5	182
537	Multicomponent Hierarchical Cu-Doped NiCo-LDH/CuO Double Arrays for Ultralong-Life Hybrid Fiber Supercapacitor. <i>Advanced Functional Materials</i> , 2019 , 29, 1809004	15.6	182
536	Cucumber-like V ₂ O ₅ /poly(3,4-ethylenedioxythiophene)&MnO ₂ nanowires with enhanced electrochemical cyclability. <i>Nano Letters</i> , 2013 , 13, 740-5	11.5	182
535	Activation of Sodium Storage Sites in Prussian Blue Analogues via Surface Etching. <i>Nano Letters</i> , 2017 , 17, 4713-4718	11.5	175

534	Ultrathin MoO ₂ nanosheets for superior lithium storage. <i>Nano Energy</i> , 2015 , 11, 129-135	17.1	172
533	Vanadium Sulfide on Reduced Graphene Oxide Layer as a Promising Anode for Sodium Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 20902-8	9.5	171
532	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	17.1	171
531	Synergistic effect of hierarchical nanostructured MoO ₂ /Co(OH) ₂ with largely enhanced pseudocapacitor cyclability. <i>Nano Letters</i> , 2013 , 13, 5685-91	11.5	171
530	Nanowire templated semihollow bicontinuous graphene scrolls: designed construction, mechanism, and enhanced energy storage performance. <i>Journal of the American Chemical Society</i> , 2013 , 135, 18176-82	16.4	168
529	Nanowires for Electrochemical Energy Storage. <i>Chemical Reviews</i> , 2019 , 119, 11042-11109	68.1	167
528	Advances in metal-organic framework coatings: versatile synthesis and broad applications. <i>Chemical Society Reviews</i> , 2020 , 49, 3142-3186	58.5	167
527	Three-Dimensional Crumpled Reduced Graphene Oxide/MoS ₂ Nanoflowers: A Stable Anode for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 12625-30	9.5	165
526	Advances in Structure and Property Optimizations of Battery Electrode Materials. <i>Joule</i> , 2017 , 1, 522-547	17.8	163
525	Fast Ionic Diffusion-Enabled Nanoflake Electrode by Spontaneous Electrochemical Pre-Intercalation for High-Performance Supercapacitor. <i>Scientific Reports</i> , 2013 , 3,	4.9	159
524	The Marriage of the FeN Moiety and MXene Boosts Oxygen Reduction Catalysis: Fe 3d Electron Delocalization Matters. <i>Advanced Materials</i> , 2018 , 30, e1803220	24	157
523	A New View of Supercapacitors: Integrated Supercapacitors. <i>Advanced Energy Materials</i> , 2019 , 9, 1901083	11.8	155
522	Finely Crafted 3D Electrodes for Dendrite-Free and High-Performance Flexible Fiber-Shaped Zn//Co Batteries. <i>Advanced Functional Materials</i> , 2018 , 28, 1802016	15.6	154
521	Bottom-Up Confined Synthesis of Nanorod-in-Nanotube Structured Sb@N-C for Durable Lithium and Sodium Storage. <i>Advanced Energy Materials</i> , 2018 , 8, 1703237	21.8	150
520	Low-Crystalline Bimetallic Metal-Organic Framework Electrocatalysts with Rich Active Sites for Oxygen Evolution. <i>ACS Energy Letters</i> , 2019 , 4, 285-292	20.1	150
519	All-flexible lithium ion battery based on thermally-etched porous carbon cloth anode and cathode. <i>Nano Energy</i> , 2016 , 26, 446-455	17.1	147
518	Three-dimensional graphene framework with ultra-high sulfur content for a robust lithium-sulfur battery. <i>Nano Research</i> , 2016 , 9, 240-248	10	147
517	Metal-organic framework derived carbon-confined NiP nanocrystals supported on graphene for an efficient oxygen evolution reaction. <i>Chemical Communications</i> , 2017 , 53, 8372-8375	5.8	147

516	Hydrated vanadium pentoxide with superior sodium storage capacity. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 8070-8075	13	146
515	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	21.8	144
514	Defect-Rich Soft Carbon Porous Nanosheets for Fast and High-Capacity Sodium-Ion Storage. <i>Advanced Energy Materials</i> , 2019 , 9, 1803260	21.8	143
513	Ultrafine Nickel-Nanoparticle-Enabled SiO ₂ Hierarchical Hollow Spheres for High-Performance Lithium Storage. <i>Advanced Functional Materials</i> , 2018 , 28, 1704561	15.6	142
512	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	35.4	141
511	Novel K ₃ V ₂ (PO ₄) ₃ /C Bundled Nanowires as Superior Sodium-Ion Battery Electrode with Ultrahigh Cycling Stability. <i>Advanced Energy Materials</i> , 2015 , 5, 1500716	21.8	140
510	Ultrastable and High-Performance Zn/VO ₂ Battery Based on a Reversible Single-Phase Reaction. <i>Chemistry of Materials</i> , 2019 , 31, 699-706	9.6	139
509	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	19.4	136
508	Graphene decorated vanadium oxide nanowire aerogel for long-cycle-life magnesium battery cathodes. <i>Nano Energy</i> , 2015 , 18, 265-272	17.1	134
507	Dielectric spectroscopy studies on (PVP+PVA) polyblend film. <i>Microelectronic Engineering</i> , 2006 , 83, 281-285	23.5	134
506	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	17.1	132
505	Single beta-AgVO ₃ nanowire H ₂ S sensor. <i>Nano Letters</i> , 2010 , 10, 2604-8	11.5	132
504	Interwoven three-dimensional architecture of cobalt oxide nanobrush-graphene@Ni(x)Co(2x)(OH)(6x) for high-performance supercapacitors. <i>Nano Letters</i> , 2015 , 15, 2037-44	11.5	129
503	Graphene nanowires anchored to 3D graphene foam via self-assembly for high performance Li and Na ion storage. <i>Nano Energy</i> , 2017 , 37, 108-117	17.1	128
502	Copper-Nickel Nitride Nanosheets as Efficient Bifunctional Catalysts for Hydrazine-Assisted Electrolytic Hydrogen Production. <i>Advanced Energy Materials</i> , 2019 , 9, 1900390	21.8	128
501	Self-adaptive strain-relaxation optimization for high-energy lithium storage material through crumpling of graphene. <i>Nature Communications</i> , 2014 , 5, 4565	17.4	128
500	Magnesium storage performance and mechanism of CuS cathode. <i>Nano Energy</i> , 2018 , 47, 210-216	17.1	127
499	Novel layered iron vanadate cathode for high-capacity aqueous rechargeable zinc batteries. <i>Chemical Communications</i> , 2018 , 54, 4041-4044	5.8	127

498	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	9.5	127
497	Integrated Intercalation-Based and Interfacial Sodium Storage in Graphene-Wrapped Porous Li ₄ Ti ₅ O ₁₂ Nanofibers Composite Aerogel. <i>Advanced Energy Materials</i> , 2016 , 6, 1600322	21.8	127
496	Heterogeneous branched core-shell SnO ₂ @ANI nanorod arrays with mechanical integrity and three dimensional electron transport for lithium batteries. <i>Nano Energy</i> , 2014 , 8, 196-204	17.1	127
495	Rational growth of branched nanowire heterostructures with synthetically encoded properties and function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 12212-5	11.5	126
494	Sodium-based batteries: from critical materials to battery systems. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 9406-9431	13	125
493	Sodium Vanadium Fluorophosphates (NVOFP) Array Cathode Designed for High-Rate Full Sodium Ion Storage Device. <i>Advanced Energy Materials</i> , 2018 , 8, 1800058	21.8	124
492	Stable alkali metal ion intercalation compounds as optimized metal oxide nanowire cathodes for lithium batteries. <i>Nano Letters</i> , 2015 , 15, 2180-5	11.5	124
491	Single nanowire electrochemical devices. <i>Nano Letters</i> , 2010 , 10, 4273-8	11.5	124
490	Porous carbonized graphene-embedded fungus film as an interlayer for superior Li ₂ S batteries. <i>Nano Energy</i> , 2015 , 17, 224-232	17.1	123
489	Vanadium-Based Nanomaterials: A Promising Family for Emerging Metal-Ion Batteries. <i>Advanced Functional Materials</i> , 2020 , 30, 1904398	15.6	123
488	Mesoporous NiS Nanospheres Anode with Pseudocapacitance for High-Rate and Long-Life Sodium-Ion Battery. <i>Small</i> , 2017 , 13, 1701744	11	121
487	Interlayer-Spacing-Regulated VOPO Nanosheets with Fast Kinetics for High-Capacity and Durable Rechargeable Magnesium Batteries. <i>Advanced Materials</i> , 2018 , 30, e1801984	24	115
486	Carbon-coated hierarchical NaTi ₂ (PO ₄) ₃ mesoporous microflowers with superior sodium storage performance. <i>Nano Energy</i> , 2016 , 28, 224-231	17.1	114
485	Nanowires in Energy Storage Devices: Structures, Synthesis, and Applications. <i>Advanced Energy Materials</i> , 2018 , 8, 1802369	21.8	114
484	Recent Advances in Rational Electrode Designs for High-Performance Alkaline Rechargeable Batteries. <i>Advanced Functional Materials</i> , 2019 , 29, 1807847	15.6	113
483	Vanadate-Based Materials for Li-Ion Batteries: The Search for Anodes for Practical Applications. <i>Advanced Energy Materials</i> , 2019 , 9, 1803324	21.8	113
482	Polycrystalline soft carbon semi-hollow microrods as anode for advanced K-ion full batteries. <i>Nanoscale</i> , 2017 , 9, 18216-18222	7.7	113
481	Materials Design for High-Safety Sodium-Ion Battery. <i>Advanced Energy Materials</i> , 2021 , 11, 2000974	21.8	112

480	Field Effect Enhanced Hydrogen Evolution Reaction of MoS Nanosheets. <i>Advanced Materials</i> , 2017 , 29, 1604464	24	111
479	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	19.4	111
478	Molybdenum oxide nanowires: synthesis & properties. <i>Materials Today</i> , 2011 , 14, 346-353	21.8	111
477	Air-Stable Porous FeN Encapsulated in Carbon Microboxes with High Volumetric Lithium Storage Capacity and a Long Cycle Life. <i>Nano Letters</i> , 2017 , 17, 5740-5746	11.5	110
476	Ultralong SbSe Nanowire-Based Free-Standing Membrane Anode for Lithium/Sodium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 35219-35226	9.5	110
475	Heterostructured BiS-BiO Nanosheets with a Built-In Electric Field for Improved Sodium Storage. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 7201-7207	9.5	109
474	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	17.1	104
473	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	17.1	103
472	Upraising the O 2p Orbital by Integrating Ni with MoO ₂ for Accelerating Hydrogen Evolution Kinetics. <i>ACS Catalysis</i> , 2019 , 9, 2275-2285	13.1	103
471	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	21.8	102
470	Rational synthesis of silver vanadium oxides/polyaniline triaxial nanowires with enhanced electrochemical property. <i>Nano Letters</i> , 2011 , 11, 4992-6	11.5	102
469	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	3.5	101
468	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	16.2	100
467	Graphene Oxide Wrapped Amorphous Copper Vanadium Oxide with Enhanced Capacitive Behavior for High-Rate and Long-Life Lithium-Ion Battery Anodes. <i>Advanced Science</i> , 2015 , 2, 1500154	13.6	100
466	Co-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	24	100
465	Electrostatic Assembly of Sandwich-like Ag-C@ZnO-C@Ag-C Hybrid Hollow Microspheres with Excellent High-Rate Lithium Storage Properties. <i>ACS Nano</i> , 2016 , 10, 1283-91	16.7	99
464	Greigite FeS as a new anode material for high-performance sodium-ion batteries. <i>Chemical Science</i> , 2017 , 8, 160-164	9.4	99
463	Field-Effect Tuned Adsorption Dynamics of VSe Nanosheets for Enhanced Hydrogen Evolution Reaction. <i>Nano Letters</i> , 2017 , 17, 4109-4115	11.5	98

462	Recent Advances and Prospects of Cathode Materials for Rechargeable Aqueous Zinc-Ion Batteries. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1900387	4.6	98
461	Building better zinc-ion batteries: A materials perspective. <i>EnergyChem</i> , 2019 , 1, 100022	36.9	97
460	Nanostructured Conversion-Type Negative Electrode Materials for Low-Cost and High-Performance Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2018 , 28, 1804458	15.6	97
459	Built-in oriented electric field facilitating durable Zn MnO ₂ battery. <i>Nano Energy</i> , 2019 , 62, 79-84	17.1	96
458	Antimony nanoparticles anchored in three-dimensional carbon network as promising sodium-ion battery anode. <i>Journal of Power Sources</i> , 2016 , 304, 340-345	8.9	96
457	Electrical property of Mo-doped VO ₂ nanowire array film by melting-quenching sol-gel method. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 19083-6	3.4	95
456	Multidimensional Synergistic Nanoarchitecture Exhibiting Highly Stable and Ultrafast Sodium-Ion Storage. <i>Advanced Materials</i> , 2018 , 30, e1707122	24	94
455	Self-sacrificed synthesis of carbon-coated SiO _x nanowires for high capacity lithium ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 4183-4189	13	92
454	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	19.4	92
453	Interface-modulated fabrication of hierarchical yolk-shell Co ₃ O ₄ /C dodecahedrons as stable anodes for lithium and sodium storage. <i>Nano Research</i> , 2017 , 10, 2364-2376	10	91
452	Carbon-MEMS-Based Alternating Stacked MoS ₂ @rGO-CNT Micro-Supercapacitor with High Capacitance and Energy Density. <i>Small</i> , 2017 , 13, 1700639	11	90
451	Vanadium-Based Cathode Materials for Rechargeable Multivalent Batteries: Challenges and Opportunities. <i>Electrochemical Energy Reviews</i> , 2018 , 1, 169-199	29.3	90
450	Alkaline earth metal vanadates as sodium-ion battery anodes. <i>Nature Communications</i> , 2017 , 8, 460	17.4	90
449	Surfactant-templating strategy for ultrathin mesoporous TiO ₂ coating on flexible graphitized carbon supports for high-performance lithium-ion battery. <i>Nano Energy</i> , 2016 , 25, 80-90	17.1	90
448	Nucleophilic substitution between polysulfides and binders unexpectedly stabilizing lithium sulfur battery. <i>Nano Energy</i> , 2017 , 38, 82-90	17.1	89
447	Three-dimensional carbon network confined antimony nanoparticle anodes for high-capacity K-ion batteries. <i>Nanoscale</i> , 2018 , 10, 6820-6826	7.7	89
446	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	21.8	89
445	Emerging Prototype Sodium-Ion Full Cells with Nanostructured Electrode Materials. <i>Small</i> , 2017 , 13, 1604181	11	88

- 444 Identification of Phase Control of Carbon-Confined Nb₂O₅ Nanoparticles toward High-Performance Lithium Storage. *Advanced Energy Materials*, **2019**, 9, 1802695 21.8 88
- 443 Oxygen Vacancy-Determined Highly Efficient Oxygen Reduction in NiCoO/Hollow Carbon Spheres. *ACS Applied Materials & Interfaces*, **2018**, 10, 16410-16417 9.5 88
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