

Yunhui Huang

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512
papers

37,583
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102
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175
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544
ext. papers

44,675
ext. citations

12.5
avg, IF

7.8
L-index

#	Paper	IF	Citations
512	Nitrogen-doped porous carbon nanofiber webs as anodes for lithium ion batteries with a superhigh capacity and rate capability. <i>Advanced Materials</i> , 2012 , 24, 2047-50	24	1394
511	Synthesis of functionalized 3D hierarchical porous carbon for high-performance supercapacitors. <i>Energy and Environmental Science</i> , 2013 , 6, 2497	35.4	935
510	Development and challenges of LiFePO ₄ cathode material for lithium-ion batteries. <i>Energy and Environmental Science</i> , 2011 , 4, 269-284	35.4	898
509	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
508	Reconstruction of Conformal Nanoscale MnO on Graphene as a High-Capacity and Long-Life Anode Material for Lithium Ion Batteries. <i>Advanced Functional Materials</i> , 2013 , 23, 2436-2444	15.6	703
507	Ultrathin 2D Metal-Organic Framework Nanosheets. <i>Advanced Materials</i> , 2015 , 27, 7372-8	24	684
506	MOF-derived porous ZnO/ZnFe ₂ O ₄ /C octahedra with hollow interiors for high-rate lithium-ion batteries. <i>Advanced Materials</i> , 2014 , 26, 6622-8	24	596
505	Self-assembled hierarchical MoO ₂ /graphene nanoarchitectures and their application as a high-performance anode material for lithium-ion batteries. <i>ACS Nano</i> , 2011 , 5, 7100-7	16.7	548
504	Functionalized N-doped interconnected carbon nanofibers as an anode material for sodium-ion storage with excellent performance. <i>Carbon</i> , 2013 , 55, 328-334	10.4	537
503	Promises, Challenges, and Recent Progress of Inorganic Solid-State Electrolytes for All-Solid-State Lithium Batteries. <i>Advanced Materials</i> , 2018 , 30, e1705702	24	506
502	Nanostructured Mo-based electrode materials for electrochemical energy storage. <i>Chemical Society Reviews</i> , 2015 , 44, 2376-404	58.5	498
501	A highly ordered meso@microporous carbon-supported sulfur@smaller sulfur core-shell structured cathode for Li-S batteries. <i>ACS Nano</i> , 2014 , 8, 9295-303	16.7	497
500	Synthesis of Two-Dimensional CoS _{1.097} /Nitrogen-Doped Carbon Nanocomposites Using Metal-Organic Framework Nanosheets as Precursors for Supercapacitor Application. <i>Journal of the American Chemical Society</i> , 2016 , 138, 6924-7	16.4	485
499	Towards polyvalent ion batteries: A zinc-ion battery based on NASICON structured Na ₃ V ₂ (PO ₄) ₃ . <i>Nano Energy</i> , 2016 , 25, 211-217	17.1	436
498	Flexible Asymmetric Micro-Supercapacitors Based on Bi ₂ O ₃ and MnO ₂ Nanoflowers: Larger Areal Mass Promises Higher Energy Density. <i>Advanced Energy Materials</i> , 2015 , 5, 1401882	21.8	408
497	A Hierarchical N/S-Codoped Carbon Anode Fabricated Facilely from Cellulose/Polyaniline Microspheres for High-Performance Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2016 , 6, 1501929	21.8	378
496	A solution-phase bifunctional catalyst for lithium-oxygen batteries. <i>Journal of the American Chemical Society</i> , 2014 , 136, 8941-6	16.4	356

495	Insight into the Electrode Mechanism in Lithium-Sulfur Batteries with Ordered Microporous Carbon Confined Sulfur as the Cathode. <i>Advanced Energy Materials</i> , 2014 , 4, 1301473	21.8	350
494	Sulfur-Doped Carbon with Enlarged Interlayer Distance as a High-Performance Anode Material for Sodium-Ion Batteries. <i>Advanced Science</i> , 2015 , 2, 1500195	13.6	339
493	Paper-based supercapacitors for self-powered nanosystems. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 4934-8	16.4	332
492	Routes to High Energy Cathodes of Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2016 , 6, 1501727	21.8	331
491	Status and prospects in sulfur-carbon composites as cathode materials for rechargeable lithium-sulfur batteries. <i>Carbon</i> , 2015 , 92, 41-63	10.4	328
490	Bioinspired Design of Ultrathin 2D Bimetallic Metal-Organic-Framework Nanosheets Used as Biomimetic Enzymes. <i>Advanced Materials</i> , 2016 , 28, 4149-55	24	320
489	Nitrogen-rich hard carbon as a highly durable anode for high-power potassium-ion batteries. <i>Energy Storage Materials</i> , 2017 , 8, 161-168	19.4	316
488	Electrospun porous ZnCo ₂ O ₄ nanotubes as a high-performance anode material for lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2012 , 22, 8916		306
487	Ultrathin Two-Dimensional Covalent Organic Framework Nanosheets: Preparation and Application in Highly Sensitive and Selective DNA Detection. <i>Journal of the American Chemical Society</i> , 2017 , 139, 8698-8704	16.4	301
486	Prussian Blue Cathode Materials for Sodium-Ion Batteries and Other Ion Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1702619	21.8	299
485	Self-Assembly of Single-Layer CoAl-Layered Double Hydroxide Nanosheets on 3D Graphene Network Used as Highly Efficient Electrocatalyst for Oxygen Evolution Reaction. <i>Advanced Materials</i> , 2016 , 28, 7640-5	24	296
484	Growth of Au Nanoparticles on 2D Metalloporphyrinic Metal-Organic Framework Nanosheets Used as Biomimetic Catalysts for Cascade Reactions. <i>Advanced Materials</i> , 2017 , 29, 1700102	24	283
483	A Bamboo-Inspired Nanostructure Design for Flexible, Foldable, and Twistable Energy Storage Devices. <i>Nano Letters</i> , 2015 , 15, 3899-906	11.5	257
482	Significantly enhanced energy storage performance promoted by ultimate sized ferroelectric BaTiO ₃ fillers in nanocomposite films. <i>Nano Energy</i> , 2017 , 31, 49-56	17.1	252
481	Constructing Hierarchical Tectorum-like β -Fe ₂ O ₃ /PPy Nanoarrays on Carbon Cloth for Solid-State Asymmetric Supercapacitors. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 1105-1110	16.4	247
480	Ultrafine core-shell BaTiO ₃ @SiO ₂ structures for nanocomposite capacitors with high energy density. <i>Nano Energy</i> , 2018 , 51, 513-523	17.1	238
479	Flexible membranes of MoS ₂ /C nanofibers by electrospinning as binder-free anodes for high-performance sodium-ion batteries. <i>Scientific Reports</i> , 2015 , 5, 9254	4.9	235
478	Preparation of High-Percentage 1T-Phase Transition Metal Dichalcogenide Nanodots for Electrochemical Hydrogen Evolution. <i>Advanced Materials</i> , 2018 , 30, 1705509	24	234

477	High sulfur loading composite wrapped by 3D nitrogen-doped graphene as a cathode material for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 5018-5023	13	231
476	Morphosynthesis of a hierarchical MoO ₂ nanoarchitecture as a binder-free anode for lithium-ion batteries. <i>Energy and Environmental Science</i> , 2011 , 4, 2870	35.4	225
475	Slurryless Li ₂ S/reduced graphene oxide cathode paper for high-performance lithium sulfur battery. <i>Nano Letters</i> , 2015 , 15, 1796-802	11.5	219
474	Hybridization of MOFs and COFs: A New Strategy for Construction of MOF@COF Core-Shell Hybrid Materials. <i>Advanced Materials</i> , 2018 , 30, 1705454	24	200
473	High-Yield Exfoliation of Ultrathin Two-Dimensional Ternary Chalcogenide Nanosheets for Highly Sensitive and Selective Fluorescence DNA Sensors. <i>Journal of the American Chemical Society</i> , 2015 , 137, 10430-6	16.4	187
472	Hierarchical MoS ₂ nanosheet/active carbon fiber cloth as a binder-free and free-standing anode for lithium-ion batteries. <i>Nanoscale</i> , 2014 , 6, 5351-8	7.7	184
471	Confined selenium within porous carbon nanospheres as cathode for advanced Li/Se batteries. <i>Nano Energy</i> , 2014 , 9, 229-236	17.1	183
470	Sodium storage in Na-rich Na _x FeFe(CN) ₆ nanocubes. <i>Nano Energy</i> , 2015 , 12, 386-393	17.1	183
469	Building Safe Lithium-Ion Batteries for Electric Vehicles: A Review. <i>Electrochemical Energy Reviews</i> , 2020 , 3, 1-42	29.3	182
468	3D Graphene Decorated NaTi ₂ (PO ₄) ₃ Microspheres as a Superior High-Rate and Ultracycle-Stable Anode Material for Sodium Ion Batteries. <i>Advanced Energy Materials</i> , 2016 , 6, 1502197	21.8	177
467	Enhanced Cyclability for Sulfur Cathode Achieved by a Water-Soluble Binder. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 15703-15709	3.8	175
466	Macroporous free-standing nano-sulfur/reduced graphene oxide paper as stable cathode for lithium-sulfur battery. <i>Nano Energy</i> , 2015 , 11, 678-686	17.1	169
465	Flexible fiber-shaped supercapacitors based on hierarchically nanostructured composite electrodes. <i>Nano Research</i> , 2015 , 8, 1148-1158	10	165
464	Stabilization of 4H hexagonal phase in gold nanoribbons. <i>Nature Communications</i> , 2015 , 6, 7684	17.4	165
463	Flexible and Binder-Free Electrodes of Sb/rGO and Na ₃ V ₂ (PO ₄) ₃ /rGO Nanocomposites for Sodium-Ion Batteries. <i>Small</i> , 2015 , 11, 3822-9	11	164
462	Sodium metal anodes for room-temperature sodium-ion batteries: Applications, challenges and solutions. <i>Energy Storage Materials</i> , 2019 , 16, 6-23	19.4	164
461	Ultrafine MoO ₂ nanoparticles embedded in a carbon matrix as a high-capacity and long-life anode for lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2012 , 22, 425-431		163
460	Atomically Dispersed Fe-N _x /C Electrocatalyst Boosts Oxygen Catalysis via a New Metal-Organic Polymer Supramolecule Strategy. <i>Advanced Energy Materials</i> , 2018 , 8, 1801226	21.8	158

459	MOF-Based Hierarchical Structures for Solar-Thermal Clean Water Production. <i>Advanced Materials</i> , 2019 , 31, e1808249	24	157
458	Bi ₄ Ti ₃ O ₁₂ nanofibers-BiOI nanosheets p-n junction: facile synthesis and enhanced visible-light photocatalytic activity. <i>Nanoscale</i> , 2013 , 5, 9764-72	7.7	155
457	Synthesis of Ultrathin PdCu Alloy Nanosheets Used as a Highly Efficient Electrocatalyst for Formic Acid Oxidation. <i>Advanced Materials</i> , 2017 , 29, 1700769	24	154
456	Lithiation-induced amorphization of Pd ₃ P ₂ S ₈ for highly efficient hydrogen evolution. <i>Nature Catalysis</i> , 2018 , 1, 460-468	36.5	153
455	NiFe (Oxy) Hydroxides Derived from NiFe Disulfides as an Efficient Oxygen Evolution Catalyst for Rechargeable Zn-Air Batteries: The Effect of Surface S Residues. <i>Advanced Materials</i> , 2018 , 30, e1800757 ²⁴	24	153
454	Protecting the Li-Metal Anode in a Li-O Battery by using Boric Acid as an SEI-Forming Additive. <i>Advanced Materials</i> , 2018 , 30, e1803270	24	152
453	Controlled synthesis of mesoporous MnO/C networks by microwave irradiation and their enhanced lithium-storage properties. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 1997-2003	9.5	152
452	Lithium-Graphite Paste: An Interface Compatible Anode for Solid-State Batteries. <i>Advanced Materials</i> , 2019 , 31, e1807243	24	150
451	Highly porous Li ₄ Ti ₅ O ₁₂ /C nanofibers for ultrafast electrochemical energy storage. <i>Nano Energy</i> , 2014 , 10, 163-171	17.1	150
450	Amorphous/Crystalline Hetero-Phase Pd Nanosheets: One-Pot Synthesis and Highly Selective Hydrogenation Reaction. <i>Advanced Materials</i> , 2018 , 30, e1803234	24	147
449	High-performance lithium storage in nitrogen-enriched carbon nanofiber webs derived from polypyrrole. <i>Electrochimica Acta</i> , 2013 , 106, 320-326	6.7	146
448	V ₂ O ₅ nanopaper as a cathode material with high capacity and long cycle life for rechargeable aqueous zinc-ion battery. <i>Nano Energy</i> , 2019 , 60, 752-759	17.1	144
447	Porous carbon-modified MnO disks prepared by a microwave-polyol process and their superior lithium-ion storage properties. <i>Journal of Materials Chemistry</i> , 2012 , 22, 19190		143
446	Ultrathin CoO/Graphene Hybrid Nanosheets: A Highly Stable Anode Material for Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 20794-20799	3.8	142
445	Electrode Materials of Sodium-Ion Batteries toward Practical Application. <i>ACS Energy Letters</i> , 2018 , 3, 1604-1612	20.1	141
444	Alkali-Metal Anodes: From Lab to Market. <i>Joule</i> , 2019 , 3, 2334-2363	27.8	140
443	Graphitic Carbon Nitride (g-C ₃ N ₄): An Interface Enabler for Solid-State Lithium Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 3699-3704	16.4	137
442	Superior lithium storage performance in nanoscaled MnO promoted by N-doped carbon webs. <i>Nano Energy</i> , 2013 , 2, 412-418	17.1	136

441	Two-dimensional transition metal dichalcogenide nanomaterials for biosensing applications. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 24-36	7.8	130
440	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
439	Freestanding MoO ₃ /nanobelt/carbon nanotube films for Li-ion intercalation pseudocapacitors. <i>Nano Energy</i> , 2014 , 9, 355-363	17.1	125
438	Self-wrapped Sb/C nanocomposite as anode material for High-performance sodium-ion batteries. <i>Nano Energy</i> , 2015 , 16, 479-487	17.1	124
437	NASICON-Structured NaTi ₂ (PO ₄) ₃ @C Nanocomposite as the Low Operation-Voltage Anode Material for High-Performance Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 2238-46	9.5	124
436	Synthesis of porous Bi ₄ Ti ₃ O ₁₂ nanofibers by electrospinning and their enhanced visible-light-driven photocatalytic properties. <i>Nanoscale</i> , 2013 , 5, 2028-35	7.7	124
435	Assembly of NiO/Ni(OH) ₂ /PEDOT Nanocomposites on Contra Wires for Fiber-Shaped Flexible Asymmetric Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 1774-9	9.5	123
434	TiN as a simple and efficient polysulfide immobilizer for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 17711-17717	13	122
433	Ultrathin, Flexible Polymer Electrolyte for Cost-Effective Fabrication of All-Solid-State Lithium Metal Batteries. <i>Advanced Energy Materials</i> , 2019 , 9, 1902767	21.8	122
432	High-performance single atom bifunctional oxygen catalysts derived from ZIF-67 superstructures. <i>Nano Energy</i> , 2019 , 61, 245-250	17.1	121
431	Encapsulation of MnO nanocrystals in electrospun carbon nanofibers as high-performance anode materials for lithium-ion batteries. <i>Scientific Reports</i> , 2014 , 4, 4229	4.9	121
430	Layer-by-layer assembled MoO ₃ /graphene thin film as a high-capacity and binder-free anode for lithium-ion batteries. <i>Nanoscale</i> , 2012 , 4, 4707-11	7.7	121
429	Ether-compatible sulfurized polyacrylonitrile cathode with excellent performance enabled by fast kinetics via selenium doping. <i>Nature Communications</i> , 2019 , 10, 1021	17.4	120
428	A SnO ₂ @carbon nanocluster anode material with superior cyclability and rate capability for lithium-ion batteries. <i>Nanoscale</i> , 2013 , 5, 3298-305	7.7	120
427	Hybrid aqueous battery based on Na ₃ V ₂ (PO ₄) ₃ /C cathode and zinc anode for potential large-scale energy storage. <i>Journal of Power Sources</i> , 2016 , 308, 52-57	8.9	119
426	Submonolayered Ru Deposited on Ultrathin Pd Nanosheets used for Enhanced Catalytic Applications. <i>Advanced Materials</i> , 2016 , 28, 10282-10286	24	117
425	Improved Reversibility of Fe /Fe Redox Couple in Sodium Super Ion Conductor Type Na Fe (PO) for Sodium-Ion Batteries. <i>Advanced Materials</i> , 2017 , 29, 1605694	24	115
424	SnO ₂ as a high-efficiency polysulfide trap in lithium-sulfur batteries. <i>Nanoscale</i> , 2016 , 8, 13638-45	7.7	115

4 ²³	High-performance aqueous sodium-ion batteries with K _{0.27} MnO ₂ cathode and their sodium storage mechanism. <i>Nano Energy</i> , 2014 , 5, 97-104	17.1	115
4 ²²	Coral-like H-MnS composites with N-doped carbon as anode materials for high-performance lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2012 , 22, 24026		115
4 ²¹	Cathode materials for rechargeable aluminum batteries: current status and progress. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 5646-5660	13	114
4 ²⁰	Defect and pyridinic nitrogen engineering of carbon-based metal-free nanomaterial toward oxygen reduction. <i>Nano Energy</i> , 2018 , 52, 307-314	17.1	114
4 ¹⁹	Metal-Organic Framework Derived Honeycomb Co ₉ S ₈ @C Composites for High-Performance Supercapacitors. <i>Advanced Energy Materials</i> , 2018 , 8, 1801080	21.8	110
4 ¹⁸	Nanostructured Ti-based anode materials for Na-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 12001-12013	13	109
4 ¹⁷	Paper-Based Supercapacitors for Self-Powered Nanosystems. <i>Angewandte Chemie</i> , 2012 , 124, 5018-5023	3.6	109
4 ¹⁶	Electrospinning of carbon-coated MoO ₂ nanofibers with enhanced lithium-storage properties. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 16735-40	3.6	109
4 ¹⁵	Self-assembled mesoporous CoO nanodisks as a long-life anode material for lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2012 , 22, 13826		108
4 ¹⁴	A high-capacity lithium-air battery with Pd modified carbon nanotube sponge cathode working in regular air. <i>Carbon</i> , 2013 , 62, 288-295	10.4	106
4 ¹³	Regulating the active species of Ni(OH) using CeO: 3D CeO/Ni(OH)/carbon foam as an efficient electrode for the oxygen evolution reaction. <i>Chemical Science</i> , 2017 , 8, 3211-3217	9.4	105
4 ¹²	Conformal N-doped carbon on nanoporous TiO ₂ spheres as a high-performance anode material for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 10375	13	103
4 ¹¹	Effect of Vanadium Incorporation on Electrochemical Performance of LiFePO ₄ for Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 13520-13527	3.8	102
4 ¹⁰	Heteroatom-Doped Carbon Materials: Synthesis, Mechanism, and Application for Sodium-Ion Batteries. <i>Small Methods</i> , 2019 , 3, 1800323	12.8	102
4 ⁰⁹	In Situ Exfoliating and Generating Active Sites on Graphene Nanosheets Strongly Coupled with Carbon Fiber toward Self-Standing Bifunctional Cathode for Rechargeable Zn-Air Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1703539	21.8	99
4 ⁰⁸	Synthesis of hierarchical MoS ₂ and its electrochemical performance as an anode material for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 3498-3504	13	99
4 ⁰⁷	A Dual-Insertion Type Sodium-Ion Full Cell Based on High-Quality Ternary-Metal Prussian Blue Analogs. <i>Advanced Energy Materials</i> , 2018 , 8, 1702856	21.8	98
4 ⁰⁶	Preparation of Superhydrophilic and Underwater Superoleophobic Nanofiber-Based Meshes from Waste Glass for Multifunctional Oil/Water Separation. <i>Small</i> , 2017 , 13, 1700391	11	95

405	Metal-organic framework derived ZnO/ZnFe ₂ O ₄ /C nanocages as stable cathode material for reversible lithium-oxygen batteries. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 4947-54	9.5	92
404	Electrospun sillenite Bi ₁₂ MO ₂₀ (M = Ti, Ge, Si) nanofibers: general synthesis, band structure, and photocatalytic activity. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 20698-705	3.6	92
403	Preparation of Single-Layer MoS ₂ (1-x)Se ₂ (1-x) and Mo(x)W(1-x)S ₂ Nanosheets with High-Concentration Metallic 1T Phase. <i>Small</i> , 2016 , 12, 1866-74	11	91
402	In Situ Synthesis of Metal Sulfide Nanoparticles Based on 2D Metal-Organic Framework Nanosheets. <i>Small</i> , 2016 , 12, 4669-74	11	88
401	Ethanol Electro-Oxidation on Ternary Platinum-Rhodium-Iridium Nanocatalysts: Insights in the Atomic 3D Structure of the Active Catalytic Phase. <i>ACS Catalysis</i> , 2014 , 4, 1859-1867	13.1	87
400	High valence Mo-doped Na ₃ V ₂ (PO ₄) ₃ /C as a high rate and stable cycle-life cathode for sodium battery. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 1390-1396	13	85
399	Facile synthesis of sandwiched Zn ₂ GeO ₄ -graphene oxide nanocomposite as a stable and high-capacity anode for lithium-ion batteries. <i>Nanoscale</i> , 2014 , 6, 924-30	7.7	84
398	Biomass-derived nanostructured porous carbons for lithium-sulfur batteries. <i>Science China Materials</i> , 2016 , 59, 389-407	7.1	83
397	3D interconnected porous NiMoO ₄ nanoplate arrays on Ni foam as high-performance binder-free electrode for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 22081-22087	13	81
396	Toward a Stable Sodium Metal Anode in Carbonate Electrolyte: A Compact, Inorganic Alloy Interface. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 707-714	6.4	80
395	Intercalation of cations into partially reduced molybdenum oxide for high-rate pseudocapacitors. <i>Energy Storage Materials</i> , 2015 , 1, 1-8	19.4	80
394	High-performance lithium-selenium batteries promoted by heteroatom-doped microporous carbon. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 3059-3065	13	80
393	Roll-to-roll prelithiation of Sn foil anode suppresses gassing and enables stable full-cell cycling of lithium ion batteries. <i>Energy and Environmental Science</i> , 2019 , 12, 2991-3000	35.4	79
392	Perovskite-Type LaSrMnO Electro-catalyst with Uniform Porous Structure for an Efficient Li-O ₂ Battery Cathode. <i>ACS Nano</i> , 2016 , 10, 1240-8	16.7	79
391	A dual coaxial nanocable sulfur composite for high-rate lithium-sulfur batteries. <i>Nanoscale</i> , 2014 , 6, 1653-60	7.9	79
390	Microwave-Induced in situ synthesis of Zn ₂ GeO ₄ /N-doped graphene nanocomposites and their lithium-storage properties. <i>Chemistry - A European Journal</i> , 2013 , 19, 6027-33	4.8	79
389	Amorphous CoFeP nanospheres for efficient water oxidation. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 25378-25384	13	78
388	Reducing the thickness of solid-state electrolyte membranes for high-energy lithium batteries. <i>Energy and Environmental Science</i> , 2021 , 14, 12-36	35.4	78

387	Preparation of 1T'-Phase ReSSe (x = 0-1) Nanodots for Highly Efficient Electrocatalytic Hydrogen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2018 , 140, 8563-8568	16.4	77
386	Sub-6 nm Fully Ordered L10-PtNiCo Nanoparticles Enhance Oxygen Reduction via Co Doping Induced Ferromagnetism Enhancement and Optimized Surface Strain. <i>Advanced Energy Materials</i> , 2019 , 9, 1803771	21.8	76
385	Improved Rechargeability of Lithium Metal Anode via Controlling Lithium-Ion Flux. <i>Advanced Energy Materials</i> , 2018 , 8, 1802352	21.8	76
384	A strategy of selective and dendrite-free lithium deposition for lithium batteries. <i>Nano Energy</i> , 2017 , 42, 262-268	17.1	75
383	In Operando Mechanism Analysis on Nanocrystalline Silicon Anode Material for Reversible and Ultrafast Sodium Storage. <i>Advanced Materials</i> , 2017 , 29, 1604708	24	75
382	Highly Adhesive Li-BN Nanosheet Composite Anode with Excellent Interfacial Compatibility for Solid-State Li Metal Batteries. <i>ACS Nano</i> , 2019 , 13, 14549-14556	16.7	74
381	Exploring Sodium-Ion Storage Mechanism in Hard Carbons with Different Microstructure Prepared by Ball-Milling Method. <i>Small</i> , 2018 , 14, e1802694	11	74
380	Fe7Se8 nanoparticles encapsulated by nitrogen-doped carbon with high sodium storage performance and evolving redox reactions. <i>Energy Storage Materials</i> , 2018 , 10, 114-121	19.4	73
379	Polypyrrole-promoted superior cyclability and rate capability of Na _x Fe[Fe(CN) ₆] cathodes for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 6036-6041	13	72
378	Facile fabrication of CuO nanosheets on Cu substrate as anode materials for electrochemical energy storage. <i>Journal of Alloys and Compounds</i> , 2014 , 586, 208-215	5.7	72
377	Constructing Hierarchical Tectorum-like β -Fe ₂ O ₃ /PPy Nanoarrays on Carbon Cloth for Solid-State Asymmetric Supercapacitors. <i>Angewandte Chemie</i> , 2017 , 129, 1125-1130	3.6	71
376	Controllable growth of TiO ₂ -B nanosheet arrays on carbon nanotubes as a high-rate anode material for lithium-ion batteries. <i>Carbon</i> , 2014 , 69, 302-310	10.4	71
375	Sn Nanoparticles Encapsulated in 3D Nanoporous Carbon Derived from a Metal-Organic Framework for Anode Material in Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 17172-17177	9.5	70
374	Effects of binders on electrochemical performance of nitrogen-doped carbon nanotube anode in sodium-ion battery. <i>Electrochimica Acta</i> , 2015 , 174, 970-977	6.7	70
373	Keratin-derived S/N co-doped graphene-like nanobubble and nanosheet hybrids for highly efficient oxygen reduction. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 15870-15879	13	69
372	Mechanism of Capacity Fade in Sodium Storage and the Strategies of Improvement for FeS Anode. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 1536-1541	9.5	68
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231	Rational Design of Three-Dimensional Hierarchical Nanomaterials for Asymmetric Supercapacitors. <i>ChemElectroChem</i> , 2017 , 4, 2428-2441	4.3	26
230	Boosting Pd-catalysis for electrochemical CO ₂ reduction to CO on Bi-Pd single atom alloy nanodendrites. <i>Applied Catalysis B: Environmental</i> , 2021 , 289, 119783	21.8	26
229	Investigation of Thermally Induced Cellular Ablation and Heat Response Triggered by Planar MoS ₂ -Based Nanocomposite. <i>Bioconjugate Chemistry</i> , 2017 , 28, 1059-1067	6.3	25
228	Mesoporous Pd@Pt core-shell nanoparticles supported on multi-walled carbon nanotubes as a sensing platform: application in simultaneous electrochemical detection of anticancer drugs doxorubicin and dasatinib. <i>Analytical Methods</i> , 2019 , 11, 443-453	3.2	25
227	Enhanced kinetics of polysulfide redox reactions on MoC/CNT in lithium-sulfur batteries. <i>Nanotechnology</i> , 2018 , 29, 295401	3.4	25
226	A Stable Lithium-Oxygen Battery Electrolyte Based on Fully Methylated Cyclic Ether. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 2345-2349	16.4	25

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224	Ca-doped Na ₂ Zn ₂ TeO ₆ layered sodium conductor for all-solid-state sodium-ion batteries. <i>Electrochimica Acta</i> , 2019 , 298, 121-126	6.7	25
223	Stabilizing Na ₃ Zr ₂ Si ₂ PO ₁₂ /Na Interfacial Performance by Introducing a Clean and Na-Deficient Surface. <i>Chemistry of Materials</i> , 2020 , 32, 3970-3979	9.6	25
222	Hierarchical Structural Evolution of ZnGeO in Binary Solvent and Its Effect on Li-ion Storage Performance. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 9778-9784	9.5	24
221	A facile way to fabricate double-shell pomegranate-like porous carbon microspheres for high-performance Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 12073-12079	13	24
220	Intrinsic Effects of Ruddlesden-Popper-Based Bifunctional Catalysts for High-Temperature Oxygen Reduction and Evolution. <i>Advanced Energy Materials</i> , 2019 , 9, 1901573	21.8	24
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216	An all-solid-state lithium battery using the Li ₇ La ₃ Zr ₂ O ₁₂ and Li _{6.7} La ₃ Zr _{1.7} Ta _{0.3} O ₁₂ ceramic enhanced polyethylene oxide electrolytes with superior electrochemical performance. <i>Ceramics International</i> , 2020 , 46, 11397-11405	5.1	24
215	Biomaterial-assisted synthesis of AgCl@Ag concave cubes with efficient visible-light-driven photocatalytic activity. <i>CrystEngComm</i> , 2014 , 16, 649-653	3.3	24
214	High-performance hierarchical LiNi _{1/3} Mn _{1/3} Co _{1/3} O ₂ microspheres synthesized via a facile template-sacrificial route. <i>Journal of Alloys and Compounds</i> , 2014 , 589, 615-621	5.7	24
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210	Rationally Design a Sulfur Cathode with Solid-Phase Conversion Mechanism for High Cycle-Stable Li-S Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2003690	21.8	24
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208	3D hierarchical porous Co _{1-x} S@C derived from a ZIF-67 single crystals self-assembling superstructure with superior pseudocapacitance. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 17248-17253 ¹³	13	23

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205	Surface modification of MoO _x S _y on porous TiO ₂ nanospheres as an anode material with highly reversible and ultra-fast lithium storage properties. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 15128	13	23
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203	Oxygen selective membrane based on perfluoropolyether for Li-Air battery with long cycle life. <i>Energy Storage Materials</i> , 2019 , 20, 307-314	19.4	23
202	A high-voltage honeycomb-layered Na ₄ NiTeO ₆ as cathode material for Na-ion batteries. <i>Journal of Power Sources</i> , 2017 , 360, 319-323	8.9	22
201	Semi-Flooded Sulfur Cathode with Ultralean Absorbed Electrolyte in Li-S Battery. <i>Advanced Science</i> , 2020 , 7, 1903168	13.6	22
200	Advanced Characterization Techniques for Interface in All-Solid-State Batteries. <i>Small Methods</i> , 2020 , 4, 2000111	12.8	22
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194	Sowing Silver Seeds within Patterned Ditches for Dendrite-Free Lithium Metal Batteries. <i>Advanced Science</i> , 2021 , 8, e2100684	13.6	21
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