Zai-Ping Guo

List of Publications by Year in Descending Order

525 papers	33,867 citations	98 h-index	156 g-index
549 ext. papers	40,052 ext. citations	10.5 avg, IF	7.89 L-index

#	Paper	IF	Citations
525	Harnessing Plasma-Assisted Doping Engineering to Stabilize Metallic Phase MoSe for Fast and Durable Sodium Ion Storage.. *Advanced Materials*, **2022**, e2200397	24	5
524	Synergistic effect of lithiophilic Zn nanoparticles and N-doping for stable Li metal anodes. *Journal of Energy Chemistry*, **2022**, 65, 439-447	12	4
523	Electrolyte Engineering Enables High Performance Zinc-Ion Batteries.. *Small*, **2022**, e2107033	11	17
522	Synergistic Inorganic-Organic Dual-Additive Electrolytes Enable Practical High-Voltage Lithium-Ion Batteries.. *ACS Applied Materials & Interfaces*, **2022**, 14, 10447-10456	9.5	4
521	Challenges and Prospects of Lithium□O 2 Batteries **2022**, 1		19
520	From room temperature to harsh temperature applications: Fundamentals and perspectives on electrolytes in zinc metal batteries.. *Science Advances*, **2022**, 8, eabn5097	14.3	24
519	Recent Progress and Future Advances on Aqueous Monovalent-ion Batteries towards Safe and High-power Energy Storage.. *Advanced Materials*, **2022**, e2107965	24	6
518	In Situ and In Operando Neutron Diffraction of Transition Metal Oxides for Electrochemical Storage **2022**, 319-341		
517	Design and tailoring of carbon-Al2O3 double coated nickel-based cation-disordered cathodes towards high-performance Li-ion batteries. *Nano Energy*, **2022**, 96, 107071	17.1	1
516	Cathode materials for high-performance potassium-ion batteries. *Cell Reports Physical Science*, **2021**, 2, 100657	6.1	1
515	Horizontally arranged zinc platelet electrodeposits modulated by fluorinated covalent organic framework film for high-rate and durable aqueous zinc ion batteries. *Nature Communications*, **2021**, 12, 6606	17.4	60
514	Interfacial Engineering Regulates Deposition Kinetics of Zinc Metal Anodes. *ACS Applied Energy Materials*, **2021**, 4, 11743-11751	6.1	4
513	Synchrotron X-Ray Absorption Spectroscopy and Electrochemical Study of Bi2O2Se Electrode for Lithium-/Potassium-Ion Storage. *Advanced Energy Materials*, **2021**, 11, 2100185	21.8	14
512	Lithium Metal Electrode with Increased Air Stability and Robust Solid Electrolyte Interphase Realized by Silane Coupling Agent Modification. *Advanced Materials*, **2021**, 33, e2008133	24	40
511	Learning from biology: biomimetic carbon cells promote high-power potassium ion batteries. *National Science Review*, **2021**, 8, nwab043	10.8	2
510	Progress and Perspective on Rechargeable Magnesium-Sulfur Batteries.. *Small Methods*, **2021**, 5, e2001328	12	5
509	In Situ Synchrotron X-Ray Absorption Spectroscopy Studies of Anode Materials for Rechargeable Batteries. *Batteries and Supercaps*, **2021**, 4, 1547	5.6	4

508	Phase Engineering of Nickel Sulfides to Boost Sodium- and Potassium-Ion Storage Performance. *Advanced Functional Materials*, **2021**, 31, 2010832	15.6	28
507	Challenges and future perspectives on sodium and potassium ion batteries for grid-scale energy storage. *Materials Today*, **2021**, 50, 400-400	21.8	39
506	Polysulfide Filter and Dendrite Inhibitor: Highly Graphitized Wood Framework Inhibits Polysulfide Shuttle and Lithium Dendrites in Li□S Batteries. *Advanced Functional Materials*, **2021**, 31, 2102458	15.6	12
505	Electron-Injection-Engineering Induced Phase Transition toward Stabilized 1T-MoS with Extraordinary Sodium Storage Performance. *ACS Nano*, **2021**, 15, 8896-8906	16.7	23
504	Rechargeable Potassium□Selenium Batteries. *Advanced Functional Materials*, **2021**, 31, 2102326	15.6	9
503	Phase Compatible NiFeO Coating Tunes Oxygen Redox in Li-Rich Layered Oxide. *ACS Nano*, **2021**,	16.7	18
502	Accelerated Polysulfide Redox in Binder-Free Li2S Cathodes Promises High-Energy-Density Lithium□Sulfur Batteries. *Advanced Energy Materials*, **2021**, 11, 2100957	21.8	9
501	Revealing the mechanism of saturated ether electrolyte for improving the long-cycling stability of Na-O2 batteries. *Nano Energy*, **2021**, 84, 105927	17.1	4
500	Constructing Layered Nanostructures from Non-Layered Sulfide Crystals via Surface Charge Manipulation Strategy. *Advanced Functional Materials*, **2021**, 31, 2101676	15.6	9
499	Rational Design of Core-Shell ZnTe@N-Doped Carbon Nanowires for High Gravimetric and Volumetric Alkali Metal Ion Storage. *Advanced Functional Materials*, **2021**, 31, 2006425	15.6	29
498	Protonic acid catalysis to generate fast electronic transport channels in O-functionalized carbon textile with enhanced energy storage capability. *Nano Energy*, **2021**, 80, 105572	17.1	6
497	Manipulating the Solvation Structure of Nonflammable Electrolyte and Interface to Enable Unprecedented Stability of Graphite Anodes beyond 2 Years for Safe Potassium-Ion Batteries. *Advanced Materials*, **2021**, 33, e2006313	24	91
496	A Robust Coin-Cell Design for In Situ Synchrotron-based X-Ray Powder Diffraction Analysis of Battery Materials. *Batteries and Supercaps*, **2021**, 4, 380-384	5.6	7
495	Li S-Based Li-Ion Sulfur Batteries: Progress and Prospects. *Small*, **2021**, 17, e1903934	11	16
494	A CoSe□@C core□shell structure with stable potassium storage performance realized by an effective solid electrolyte interphase layer. *Journal of Materials Chemistry A*, **2021**, 9, 11397-11404	13	9
493	A General Strategy for Antimony-Based Alloy Nanocomposite Embedded in Swiss-Cheese-Like Nitrogen-Doped Porous Carbon for Energy Storage. *Advanced Functional Materials*, **2021**, 31, 2009433	15.6	27
492	Constructing nitrided interfaces for stabilizing Li metal electrodes in liquid electrolytes. *Chemical Science*, **2021**, 12, 8945-8966	9.4	14
491	Template-Free Self-Caging Nanochemistry for Large-Scale Synthesis of Sulfonated-Graphene@Sulfur Nanocage for Long-Life Lithium-Sulfur Batteries. *Advanced Functional Materials*, **2021**, 31, 2008652	15.6	17

490	Boosting Zinc Electrode Reversibility in Aqueous Electrolytes by Using Low-Cost Antisolvents. *Angewandte Chemie*, **2021**, 133, 7442-7451	3.6	43
489	Boosting Zinc Electrode Reversibility in Aqueous Electrolytes by Using Low-Cost Antisolvents. *Angewandte Chemie - International Edition*, **2021**, 60, 7366-7375	16.4	161
488	Electrolyte Design for In Situ Construction of Highly Zn -Conductive Solid Electrolyte Interphase to Enable High-Performance Aqueous Zn-Ion Batteries under Practical Conditions. *Advanced Materials*, **2021**, 33, e2007416	24	158
487	Engineering Textile Electrode and Bacterial Cellulose Nanofiber Reinforced Hydrogel Electrolyte to Enable High-Performance Flexible All-Solid-State Supercapacitors. *Advanced Energy Materials*, **2021**, 11, 2003010	21.8	49
486	Biomass-Derived Carbon Materials for High-Performance Supercapacitors: Current Status and Perspective. *Electrochemical Energy Reviews*, **2021**, 4, 219-248	29.3	18
485	Tuning the Electrolyte Solvation Structure to Suppress Cathode Dissolution, Water Reactivity, and Zn Dendrite Growth in Zinc-Ion Batteries. *Advanced Functional Materials*, **2021**, 31, 2104281	15.6	60
484	Chain engineering of carbonyl polymers for sustainable lithium-ion batteries. *Materials Today*, **2021**, 50, 170-170	21.8	7
483	Crystallographic-Site-Specific Structural Engineering Enables Extraordinary Electrochemical Performance of High-Voltage LiNi Mn O Spinel Cathodes for Lithium-Ion Batteries. *Advanced Materials*, **2021**, 33, e2101413	24	12
482	Enabling Atomic-Scale Imaging of Sensitive Potassium Metal and Related Solid Electrolyte Interphases Using Ultralow-Dose Cryo-TEM. *Advanced Materials*, **2021**, 33, e2102666	24	4
481	Fundamental understanding and practical challenges of lithium-rich oxide cathode materials: Layered and disordered-rocksalt structure. *Energy Storage Materials*, **2021**, 40, 51-71	19.4	13
480	Fatigue-Resistant Interfacial Layer for Safe Lithium Metal Batteries. *Angewandte Chemie - International Edition*, **2021**, 60, 25508-25513	16.4	13
479	Recent progress on pristine metal/covalent-organic frameworks and their composites for lithium–sulfur batteries. *Energy and Environmental Science*, **2021**, 14, 1835-1853	35.4	54
478	Achieving High-Performance Metal Phosphide Anode for Potassium Ion Batteries via Concentrated Electrolyte Chemistry. *Advanced Energy Materials*, **2021**, 11, 2003346	21.8	29
477	High-Polarity Fluoroalkyl Ether Electrolyte Enables Solvation-Free Li Transfer for High-Rate Lithium Metal Batteries.. *Advanced Science*, **2021**, e2104699	13.6	7
476	Building Artificial Solid-Electrolyte Interphase with Uniform Intermolecular Ionic Bonds toward Dendrite-Free Lithium Metal Anodes. *Advanced Functional Materials*, **2020**, 30, 2002414	15.6	54
475	Rational design of perfect interface coupling to boost electrocatalytical oxygen reduction. *Nano Energy*, **2020**, 76, 105055	17.1	9
474	Interfacing MXene flakes on fiber fabric as an ultrafast electron transport layer for high performance textile electrodes. *Energy Storage Materials*, **2020**, 33, 62-70	19.4	33
473	Designing Dendrite-Free Zinc Anodes for Advanced Aqueous Zinc Batteries. *Advanced Functional Materials*, **2020**, 30, 2001263	15.6	269

472	A Long Cycle-Life High-Voltage Spinel Lithium-Ion Battery Electrode Achieved by Site-Selective Doping. *Angewandte Chemie - International Edition*, **2020**, 59, 10594-10602	16.4	75
471	A Long Cycle-Life High-Voltage Spinel Lithium-Ion Battery Electrode Achieved by Site-Selective Doping. *Angewandte Chemie*, **2020**, 132, 10681-10689	3.6	8
470	Low-Coordinate Step Atoms via Plasma-Assisted Calcinations to Enhance Electrochemical Reduction of Nitrogen to Ammonia. *Small*, **2020**, 16, e2000421	11	18
469	Potassium-sulfur batteries: Status and perspectives. *EcoMat*, **2020**, 2, e12038	9.4	16
468	An In-Depth Study of Zn Metal Surface Chemistry for Advanced Aqueous Zn-Ion Batteries. *Advanced Materials*, **2020**, 32, e2003021	24	286
467	Boosted Charge Transfer in Twinborn □(MnO-MnO) Heterostructures: Toward High-Rate and Ultralong-Life Zinc-Ion Batteries. *ACS Applied Materials & Interfaces*, **2020**, 12, 32526-32535	9.5	30
466	Natural Soft/Rigid Superlattices as Anodes for High-Performance Lithium-Ion Batteries. *Angewandte Chemie - International Edition*, **2020**, 59, 17494-17498	16.4	8
465	Toward a Reversible Mn4+/Mn2+ Redox Reaction and Dendrite-Free Zn Anode in Near-Neutral Aqueous Zn/MnO2 Batteries via Salt Anion Chemistry. *Advanced Energy Materials*, **2020**, 10, 1904163	21.8	98
464	Natural Soft/Rigid Superlattices as Anodes for High-Performance Lithium-Ion Batteries. *Angewandte Chemie*, **2020**, 132, 17647-17651	3.6	0
463	2020 Roadmap on Carbon Materials for Energy Storage and Conversion. *Chemistry - an Asian Journal*, **2020**, 15, 995-1013	4.5	99
462	Phase Evolution and Intermittent Disorder in Electrochemically Lithiated Graphite Determined Using in Operando Neutron Diffraction. *Chemistry of Materials*, **2020**, 32, 2518-2531	9.6	31
461	Ultrathin Few-Layer GeP Nanosheets via Lithiation-Assisted Chemical Exfoliation and Their Application in Sodium Storage. *Advanced Energy Materials*, **2020**, 10, 1903826	21.8	27
460	Metal chalcogenides for potassium storage. *Informa□□Materi□*, **2020**, 2, 437-465	23.1	104
459	Approaching High-Performance Supercapacitors via Enhancing Pseudocapacitive Nickel Oxide-Based Materials. *Advanced Sustainable Systems*, **2020**, 4, 1900137	5.9	25
458	Eliminating Transition Metal Migration and Anionic Redox to Understand Voltage Hysteresis of Lithium-Rich Layered Oxides. *Advanced Energy Materials*, **2020**, 10, 1903634	21.8	22
457	An Intrinsically Non-flammable Electrolyte for High-Performance Potassium Batteries. *Angewandte Chemie*, **2020**, 132, 3667-3673	3.6	6
456	Ultrahigh and Durable Volumetric Lithium/Sodium Storage Enabled by a Highly Dense Graphene-Encapsulated Nitrogen-Doped Carbon@Sn Compact Monolith. *Nano Letters*, **2020**, 20, 2034-2046	11.5	42
455	Enhanced lithium storage for MoS2-based composites via a vacancy-assisted method. *Applied Surface Science*, **2020**, 515, 146103	6.7	6

454	Topological design of ultrastrong MXene paper hosted Li enables ultrathin and fully flexible lithium metal batteries. *Nano Energy*, **2020**, 74, 104817	17.1	54
453	Designing a hybrid electrode toward high energy density with a staged Li and PF deintercalation/intercalation mechanism. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 2815-2823	11.5	35
452	Developing high-voltage spinel LiNi0.5Mn1.5O4 cathodes for high-energy-density lithium-ion batteries: current achievements and future prospects. *Journal of Materials Chemistry A*, **2020**, 8, 15373-15398	13	75
451	Uniform Polypyrrole Layer-Coated Sulfur/Graphene Aerogel via the Vapor-Phase Deposition Technique as the Cathode Material for Li-S Batteries. *ACS Applied Materials & Interfaces*, **2020**, 12, 5958-5967	9.5	21
450	Flexible free-standing sulfurized polyacrylonitrile electrode for stable Li/Na storage. *Electrochimica Acta*, **2020**, 333, 135493	6.7	14
449	High-Performance K□O2 Batteries Based on Metal-Free Carbon Electrocatalysts. *Angewandte Chemie*, **2020**, 132, 3498-3502	3.6	5
448	High-Performance K-CO Batteries Based on Metal-Free Carbon Electrocatalysts. *Angewandte Chemie - International Edition*, **2020**, 59, 3470-3474	16.4	47
447	An Intrinsically Non-flammable Electrolyte for High-Performance Potassium Batteries. *Angewandte Chemie - International Edition*, **2020**, 59, 3638-3644	16.4	134
446	Coupling Topological Insulator SnSb Te Nanodots with Highly Doped Graphene for High-Rate Energy Storage. *Advanced Materials*, **2020**, 32, e1905632	24	44
445	Recent Progress in Designing Stable Composite Lithium Anodes with Improved Wettability. *Advanced Science*, **2020**, 7, 2002212	13.6	42
444	Elucidation of the high-voltage phase in the layered sodium ion battery cathode material P3□Na0.5Ni0.25Mn0.75O2. *Journal of Materials Chemistry A*, **2020**, 8, 21151-21162	13	5
443	Synergy of binders and electrolytes in enabling microsized alloy anodes for high performance potassium-ion batteries. *Nano Energy*, **2020**, 77, 105118	17.1	51
442	Ultrafast Li-ion migration in eggshell-inspired 2D@2D dual porous construction towards high rate energy storage. *Carbon*, **2020**, 170, 66-74	10.4	5
441	Deeply understanding the Zn anode behaviour and corresponding improvement strategies in different aqueous Zn-based batteries. *Energy and Environmental Science*, **2020**, 13, 3917-3949	35.4	191
440	Coupling efficient biomass upgrading with H2 production via bifunctional CuxS@NiCo-LDH core□shell nanoarray electrocatalysts. *Journal of Materials Chemistry A*, **2020**, 8, 1138-1146	13	68
439	Understanding Rechargeable Battery Function Using In Operando Neutron Powder Diffraction. *Advanced Materials*, **2020**, 32, e1904528	24	39
438	Dehydration-Triggered Ionic Channel Engineering in Potassium Niobate for Li/K-Ion Storage. *Advanced Materials*, **2020**, 32, e2000380	24	47
437	Insight into the improved cycling stability of sphere-nanorod-like micro-nanostructured high voltage spinel cathode for lithium-ion batteries. *Nano Energy*, **2019**, 66, 104100	17.1	26

436	Multiple Anionic Transition-Metal Oxycarbide for Better Lithium Storage and Facilitated Multielectron Reactions. *ACS Nano*, **2019**, 13, 11665-11675	16.7	19
435	Superior Stability Secured by a Four-Phase Cathode Electrolyte Interface on a Ni-Rich Cathode for Lithium Ion Batteries. *ACS Applied Materials & Interfaces*, **2019**, 11, 36742-36750	9.5	45
434	Li Alginate-Based Artificial SEI Layer for Stable Lithium Metal Anodes. *ACS Applied Materials & Interfaces*, **2019**, 11, 37726-37731	9.5	36
433	Anion Vacancies Regulating Endows MoSSe with Fast and Stable Potassium Ion Storage. *ACS Nano*, **2019**, 13, 11843-11852	16.7	117
432	GO@Se@Ni Cathode Materials for Lithium-Selenium Battery. *Journal of the Electrochemical Society*, **2019**, 166, A5259-A5264	3.9	5
431	Ultrafast Li-ion migration in holey-graphene-based composites constructed by a generalized ex situ method towards high capacity energy storage. *Journal of Materials Chemistry A*, **2019**, 7, 4788-4796	13	27
430	Toward High-Performance Hybrid Zn-Based Batteries via Deeply Understanding Their Mechanism and Using Electrolyte Additive. *Advanced Functional Materials*, **2019**, 29, 1903605	15.6	136
429	Zn(Cu)Si2+xP3 Solid Solution Anodes for High-Performance Li-Ion Batteries with Tunable Working Potentials. *Advanced Functional Materials*, **2019**, 29, 1903638	15.6	11
428	Hollow-Carbon-Templated Few-Layered VS Nanosheets Enabling Ultrafast Potassium Storage and Long-Term Cycling. *ACS Nano*, **2019**, 13, 7939-7948	16.7	97
427	Lithiophobic-lithiophilic composite architecture through co-deposition technology toward high-performance lithium metal batteries. *Nano Energy*, **2019**, 63, 103854	17.1	57
426	Structural Insight into Layer Gliding and Lattice Distortion in Layered Manganese Oxide Electrodes for Potassium-Ion Batteries. *Advanced Energy Materials*, **2019**, 9, 1900568	21.8	89
425	A new family of cation-disordered Zn(Cu)SiP compounds as high-performance anodes for next-generation Li-ion batteries. *Energy and Environmental Science*, **2019**, 12, 2286-2297	35.4	32
424	Constructing CoO/Co3S4 Heterostructures Embedded in N-doped Carbon Frameworks for High-Performance Sodium-Ion Batteries. *Advanced Functional Materials*, **2019**, 29, 1901925	15.6	105
423	Approaching high-performance potassium-ion batteries via advanced design strategies and engineering. *Science Advances*, **2019**, 5, eaav7412	14.3	496
422	Advances in nanostructures fabricated via spray pyrolysis and their applications in energy storage and conversion. *Chemical Society Reviews*, **2019**, 48, 3015-3072	58.5	182
421	Recent progress and perspectives on aqueous Zn-based rechargeable batteries with mild aqueous electrolytes. *Energy Storage Materials*, **2019**, 20, 410-437	19.4	295
420	A self-healing layered GeP anode for high-performance Li-ion batteries enabled by low formation energy. *Nano Energy*, **2019**, 61, 594-603	17.1	46
419	Integrated Polypyrrole@Sulfur@Graphene Aerogel 3D Architecture via Advanced Vapor Polymerization for High-Performance Lithium-Sulfur Batteries. *ACS Applied Materials & Interfaces*, **2019**, 11, 18448-18455	9.5	39

418	In situ incorporation of nanostructured antimony in an N-doped carbon matrix for advanced sodium-ion batteries. *Journal of Materials Chemistry A*, **2019**, 7, 12842-12850	13	21
417	Li-Rich Layered Oxides and Their Practical Challenges: Recent Progress and Perspectives. *Electrochemical Energy Reviews*, **2019**, 2, 277-311	29.3	82
416	Re-synthesis of nano-structured LiFePO4/graphene composite derived from spent lithium-ion battery for booming electric vehicle application. *Journal of Power Sources*, **2019**, 419, 192-202	8.9	38
415	Structural Engineering of Hierarchical Micro-nanostructured Ge□ Framework by Controlling the Nucleation for Ultralong-Life Li Storage. *Advanced Energy Materials*, **2019**, 9, 1900081	21.8	77
414	Constructing the best symmetric full K-ion battery with the NASICON-type K3V2(PO4)3. *Nano Energy*, **2019**, 60, 432-439	17.1	50
413	Intrinsically Optimizing Charge Transfer via Tuning Charge/Discharge Mode for Lithium-Oxygen Batteries. *Small*, **2019**, 15, e1900154	11	6
412	Surface engineering of commercial Ni foams for stable Li metal anodes. *Energy Storage Materials*, **2019**, 23, 547-555	19.4	79
411	Yolk□hell Structured FeP@C Nanoboxes as Advanced Anode Materials for Rechargeable Lithium-/Potassium-Ion Batteries. *Advanced Functional Materials*, **2019**, 29, 1808291	15.6	183
410	Graphene-tailored molecular bonds for advanced hydrogen and lithium storage performance. *Energy Storage Materials*, **2019**, 17, 178-185	19.4	7
409	Bimetallic metal-organic frameworks derived Ni-Co-Se@C hierarchical bundle-like nanostructures with high-rate pseudocapacitive lithium ion storage. *Energy Storage Materials*, **2019**, 17, 374-384	19.4	87
408	Encapsulating MnSe Nanoparticles Inside 3D Hierarchical Carbon Frameworks with Lithium Storage Boosted by in Situ Electrochemical Phase Transformation. *ACS Applied Materials & Interfaces*, **2019**, 11, 33022-33032	9.5	28
407	Interfacial Engineering of Nickel Boride/Metaborate and Its Effect on High Energy Density Asymmetric Supercapacitors. *ACS Nano*, **2019**, 13, 9376-9385	16.7	68
406	Insight of a Phase Compatible Surface Coating for Long-Durable Li-Rich Layered Oxide Cathode. *Advanced Energy Materials*, **2019**, 9, 1901795	21.8	83
405	Recent progress and perspectives on dual-ion batteries. *EnergyChem*, **2019**, 1, 100004	36.9	72
404	Highly porous, low band-gap NixMn3□O4 (0.55 □x □1.2) spinel nanoparticles with in situ coated carbon as advanced cathode materials for zinc-ion batteries. *Journal of Materials Chemistry A*, **2019**, 7, 17854-17866	13	42
403	An amorphous Zn□/graphite composite with chemical bonding for ultra-reversible lithium storage. *Journal of Materials Chemistry A*, **2019**, 7, 16785-16792	13	19
402	Surface-Electron Coupling for Efficient Hydrogen Evolution. *Angewandte Chemie*, **2019**, 131, 17873-17881	16	8
401	Heterocarbides Reinforced Electrochemical Energy Storage. *Small*, **2019**, 15, e1903652	11	5

400	Surface-Electron Coupling for Efficient Hydrogen Evolution. *Angewandte Chemie - International Edition*, **2019**, 58, 17709-17717	16.4	28
399	Synthesis of ZnMoO4 with different polymorphas anode materials for lithium□on batteries application. *Journal of Materials Science: Materials in Electronics*, **2019**, 30, 20213-20220	2.1	0
398	The critical role of carbon in marrying silicon and graphite anodes for high-energy lithium-ion batteries **2019**, 1, 57-76		154
397	LiFePO4 Particles Embedded in Fast Bifunctional Conductor rGO&C@Li3V2(PO4)3 Nanosheets as Cathodes for High-Performance Li-Ion Hybrid Capacitors. *Advanced Functional Materials*, **2019**, 29, 1807895	15.6	29
396	Directly grown nanostructured electrodes for high-power and high-stability alkaline nickel/bismuth batteries. *Science China Materials*, **2019**, 62, 487-496	7.1	21
395	W3Nb14O44 nanowires: Ultrastable lithium storage anode materials for advanced rechargeable batteries. *Energy Storage Materials*, **2019**, 16, 535-544	19.4	65
394	Tuning nitrogen species in three-dimensional porous carbon via phosphorus doping for ultra-fast potassium storage. *Nano Energy*, **2019**, 57, 728-736	17.1	210
393	Pothole-rich Ultrathin WO Nanosheets that Trigger N?N Bond Activation of Nitrogen for Direct Nitrate Photosynthesis. *Angewandte Chemie - International Edition*, **2019**, 58, 731-735	16.4	125
392	Synthesis of porous MoV2O8 nanosheets as anode material for superior lithium storage. *Energy Storage Materials*, **2019**, 22, 128-137	19.4	25
391	Three-Dimensional Porous Cobalt Phosphide Nanocubes Encapsulated in a Graphene Aerogel as an Advanced Anode with High Coulombic Efficiency for High-Energy Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2019**, 11, 5373-5379	9.5	49
390	Borohydride-Scaffolded Li/Na/Mg Fast Ionic Conductors for Promising Solid-State Electrolytes. *Advanced Materials*, **2019**, 31, e1803533	24	57
389	Recent Advances in 3D Graphene Architectures and Their Composites for Energy Storage Applications. *Small*, **2019**, 15, e1803858	11	74
388	Lanthanide doping induced electrochemical enhancement of NaTiO anodes for sodium-ion batteries. *Chemical Science*, **2018**, 9, 3421-3425	9.4	42
387	Synthesis of porous Co3O4/C nanoparticles as anode for Li-ion battery application. *Applied Surface Science*, **2018**, 443, 401-406	6.7	27
386	Ni(OH)2 nanoflakes supported on 3D hierarchically nanoporous gold/Ni foam as superior electrodes for supercapacitors. *Science China Materials*, **2018**, 61, 353-362	7.1	22
385	Fluorinated phosphazene derivative □A promising electrolyte additive for high voltage lithium ion batteries: From electrochemical performance to corrosion mechanism. *Nano Energy*, **2018**, 46, 404-414	17.1	90
384	Free-standing sulfur-polypyrrole cathode in conjunction with polypyrrole-coated separator for flexible Li-S batteries. *Energy Storage Materials*, **2018**, 13, 312-322	19.4	78
383	Boosting the Potassium Storage Performance of Alloy-Based Anode Materials via Electrolyte Salt Chemistry. *Advanced Energy Materials*, **2018**, 8, 1703288	21.8	304

382	Two-dimensional nanostructures for sodium-ion battery anodes. *Journal of Materials Chemistry A*, **2018**, 6, 3284-3303	13	169
381	Tri-functional coating to enhance the capacity retention of LiNi 0.5 Mn 1.5 O 4 for high power lithium ion battery. *Materials Letters*, **2018**, 214, 68-71	3.3	12
380	Rational design of hybrid porous nanotubes with robust structure of ultrafine Li4Ti5O12 nanoparticles embedded in bamboo-like CNTs for superior lithium ion storage. *Journal of Materials Chemistry A*, **2018**, 6, 3342-3349	13	25
379	Graphene-Tailored Thermodynamics and Kinetics to Fabricate Metal Borohydride Nanoparticles with High Purity and Enhanced Reversibility. *Advanced Energy Materials*, **2018**, 8, 1702975	21.8	38
378	Hierarchically Bicontinuous Porous Copper as Advanced 3D Skeleton for Stable Lithium Storage. *ACS Applied Materials & Interfaces*, **2018**, 10, 13552-13561	9.5	71
377	Synthesis of hierarchical mesoporous lithium nickel cobalt manganese oxide spheres with high rate capability for lithium-ion batteries. *Applied Surface Science*, **2018**, 428, 1036-1045	6.7	12
376	Synthesis and Performance of Tungsten Disulfide/Carbon (WS2/C) Composite as Anode Material. *Journal of Electronic Materials*, **2018**, 47, 251-260	1.9	12
375	Hierarchical Porous NiO/NiMoO Heterostructure as Superior Anode Material for Lithium Storage. *ChemPlusChem*, **2018**, 83, 915-923	2.8	9
374	Molecular-Scale Functionality on Graphene To Unlock the Energy Capabilities of Metal Hydrides for High-Capacity Lithium-Ion Batteries. *ACS Nano*, **2018**, 12, 8177-8186	16.7	4
373	Recent progress on sodium ion batteries: potential high-performance anodes. *Energy and Environmental Science*, **2018**, 11, 2310-2340	35.4	425
372	Construction of Hierarchical MoSe Hollow Structures and Its Effect on Electrochemical Energy Storage and Conversion. *ACS Applied Materials & Interfaces*, **2018**, 10, 25483-25492	9.5	41
371	Graphitic Carbon Nanocage as a Stable and High Power Anode for Potassium-Ion Batteries. *Advanced Energy Materials*, **2018**, 8, 1801149	21.8	315
370	Creating fast ion conducting composites via in-situ introduction of titanium as oxygen getter. *Nano Energy*, **2018**, 49, 549-554	17.1	17
369	Plasma-Induced Amorphous Shell and Deep Cation-Site S Doping Endow TiO with Extraordinary Sodium Storage Performance. *Advanced Materials*, **2018**, 30, e1801013	24	130
368	Carbon hollow nanobubbles on porous carbon nanofibers: An ideal host for high-performance sodium-sulfur batteries and hydrogen storage. *Energy Storage Materials*, **2018**, 14, 314-323	19.4	81
367	Generalized Synthesis of Ternary Sulfide Hollow Structures with Enhanced Photocatalytic Performance for Degradation and Hydrogen Evolution. *ACS Applied Materials & Interfaces*, **2018**, 10, 17911-17922	9.5	38
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