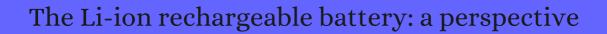
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1816	Honeycomb-like Macro-Germanium as High-Capacity Anodes for Lithium-Ion Batteries with Good Cycling and Rate Performance. <b>2015</b> , 27, 4156-4164	16.4	61
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604	Improving Li reversibility in Li metal batteries through uniform dispersion of Ag nanoparticles on graphene.	1
603	Molecular self-assembly derived hollow mesoporous carbon nanospheres with different pore and wall structure as ultra-stable anode for sodium-ion batteries. <b>2022</b> , 141080	

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598	Three-dimensional Ti3C2 MXene@silicon@nitrogen-doped carbon foam for high performance self-standing lithium-ion battery anodes. <b>2022</b> , 921, 116664	О
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595	Environmental-friendly low-cost direct regeneration of cathode material from spent LiFePO4. <b>2022</b> , 924, 166612	1
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588	In situ synthesis of a self-supported MnO2-based cathode for high-performance zinc-ion batteries by K+ pre-intercalation. <b>2022</b> , 604, 154578	2
587	Cobalt hexacyanoferrate enhanced by common ion effect for aqueous potassium-ion batteries. <b>2022</b> , 604, 154654	
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565	First-principles calculations study of TiS2/Ti2CS2 heterostructure as an anode material for Li/Na/K-ion batteries. <b>2022</b> , 215, 111784	O
564	Poly tannic acid carbon rods as anode materials for high performance lithium and sodium ion batteries. <b>2023</b> , 629, 832-845	1
563	High-rate Ni-rich single-crystal cathodes with highly exposed {0 1 0} active planes through in-situ Zr doping. <b>2023</b> , 452, 139336	1
562	Toward highly reversible aqueous zinc-ion batteries: nanoscale-regulated zinc nucleation via graphene quantum dots functionalized with multiple functional groups. <b>2023</b> , 452, 139090	2
561	Fabrication of a Porous Polymer Electrolyte from Poly(Vinylidene Fluoride-Hexafluoropropylene) Via a One-Step Reactive Vapor Induced Phase Separation for Lithium Ion Battery.	O
560	DFTReaxFF hybrid molecular dynamics investigation of the decomposition effects of localized high-concentration electrolyte in lithium metal batteries: LiFSI/DME/TFEO. <b>2022</b> , 24, 18684-18690	O
559	Regulating the electronic structure of MoO2/Mo2C/C by heterostructure and oxygen vacancies for boosting lithium storage kinetics. <b>2022</b> , 51, 12620-12629	O
558	Lattice distortion derived catalytic degradation in multi-oxide cathode catalyst for Libxygen batteries. <b>2022</b> , 10, 18078-18086	O
557	Sea-urchin-like iron-cobalt phosphide as an advanced anode material for lithium ion batteries. <b>2022</b> , 3, 7235-7240	1
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555	Lithium-Ion Battery Separators Based-On Nanolayer Co-Extrusion Prepared Polypropylene Nanobelts Reinforced Cellulose.	O
554	Phenothiazine/Reduced Graphene Oxide Composite as a Pseudocapacitive Cathode for Lithium Ion Capacitors.	O
553	A Combined Multiphysics Modeling and Deep Learning Framework to Predict Thermal Runaway in Cylindrical Li-Ion Batteries.	O
552	Design principles of nitrogen-doped graphene nanoribbons as highly effective bifunctional catalysts for LiD2 batteries. <b>2022</b> , 24, 22589-22598	0
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550	Recent progress in ZnCo2O4 and their composites for energy storage and conversion: A review.	1
549	A strategy for anode modification for future zinc-based battery application.	1

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547	In-Operando Gc-Ms: A New Tool for the Understanding of Degradation Processes Occurring in Electrochemical Capacitors.	O
546	A Composite Solid-State Electrolyte Comprised of Garnet-Type Li <sub>6.5</sub> La <sub>3</sub> Tr <sub>Tr <sub>0.1</sub>Nb <sub>0.4</sub>O <sub>12</sub> Filler in PEO Matrix for High Energy Lithium</sub>	0
545	Metal Battery.  A two-dimensional conductive polymer/V2O5 composite with rapid zinc-ion storage kinetics for high-power aqueous zinc-ion batteries. <b>2022</b> , 14, 12013-12021	1
544	Enabling Highly Stable Lithium Metal Battery by Dual-function Additive Catalyzed In-Built Quasi-Solid-State Polymer Electrolytes.	0
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542	Metal organic framework optimized hybrid solid polymer electrolytes with a high lithium-ion transference number and excellent electrochemical stability. <b>2022</b> , 6, 4528-4538	1
541	Practical conversion-type titanium telluride anodes for high-capacity long-lifespan rechargeable aqueous zinc batteries. <b>2022</b> , 10, 16976-16985	1
540	Tackling the Challenges in High Capacity Silicon Anodes for Li-Ion Cells. <b>2022</b> , 149-180	0
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538	High-Rate Soft Carbon Anode in Potassium Ion Batteries:The Role of Chemical Structures of Pitches.	O
537	Molecular structure design of planar zwitterionic polymer electrode materials for all-organic symmetric batteries.	Ο
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533	In-situ oriented oxygen-defect-rich Mn N O via nitridation and electrochemical oxidation based on industrial-scale Mn2O3 to achieve high-performance aqueous zinc ion battery. <b>2023</b> , 76, 11-18	2
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531	Carbon Nanotube Current Collector for Anode-free Battery. <b>2022</b> , 23, 2149-2155	1

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526	Regulating surface electron structure of PtNi nanoalloy via boron doping for high-current-density Li-O 2 batteries with low overpotential and long-life cyclability.	O
525	Stabilized cathode/sulfide solid electrolyte interface via Li2ZrO3 coating for all-solid-state batteries. <b>2022</b> , 41, 3639-3645	1
524	Salt-in-Salt Reinforced Carbonate Electrolyte for Li Metal Batteries.	2
523	In-situ construction of MnHe mixed oxides nanoparticles on reduced graphene oxide with superior lithium storage property. <b>2022</b> , 47, 34605-34615	O
522	Strategies to enhance Li+ transference number in liquid electrolytes for better lithium batteries.	0
521	Noncoordinating Flame-Retardant Functional Electrolyte Solvents for Rechargeable Lithium-Ion Batteries.	2
520	Structure-Activity Relationships of a Ni-MOF, a Ni-MOF-rGO, and pyrolyzed Ni/C@rGO Structures for Sodium- ion Batteries. <b>2022</b> , 7,	O
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518	Progress and challenges of prelithiation technology for lithium-ion battery.	0
517	Salt-in-Salt Reinforced Carbonate Electrolyte for Li Metal Batteries.	Ο
516	Recent Progress on High-Voltage and Fast-Charge Electrolytes for Lithium-Ion Batteries.	Ο
515	Effects of different glass formers on Li 2 S₱ 2 S 5 ₱MS 2 (MŒ\si, Ge, Sn) chalcogenide solid-state electrolytes.	O
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511	Rechargeable Dual-Carbon Batteries: A Sustainable Battery Technology. 2202450	1
510	Enabling stable 4.6 V LiCoO2 cathode through oxygen charge regulation strategy. <b>2022</b> ,	О
509	Recent Progress in Developing a LiOH-based Reversible Nonaqueous Lithium-Air Battery. 2201384	1
508	Integrated Ni and Li-rich Layered Oxide Cathode Materials for High Voltage Cycling in Rechargeable Li-ion Batteries.	O
507	A Gel Polymer Electrolyte with 2D Filler-reinforced for Dendrite Suppression Li-Ion Batteries.	O
506	Lithium-Ion Batteries The Crux of Electric Vehicles with Opportunities and Challenges. 2022, 4, 908-930	3
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503	IonBolvent Interplay in Concentrated Electrolytes Enables Subzero Temperature Li-Ion Battery Operations. <b>2022</b> , 14, 41934-41944	O
502	Spreading the full spectrum of layer-structured compounds for kinetics-enhanced aqueous multivalent metal-ion batteries. <b>2022</b> ,	1
501	Battery Materials Discovery and Smart Grid Management using Machine Learning.	O
500	CO2 Laser Sintering of Garnet-Type Solid-State Electrolytes. 3392-3400	1
499	Thermally Durable Electrolyte for Lithium-Ion Battery. <b>2022</b> , 141132	Ο
498	Synergy Effect of High-Stability of VS4 Nanorods for Sodium Ion Battery. <b>2022</b> , 27, 6303	О
497	Rigid-Rod Sulfonated Polyamide as an Aqueous-Processable Binder for Li-Ion Battery Electrodes.	O
496	P-Doped Cotton Stalk Carbon for High-Performance Lithium-Ion Batteries and LithiumBulfur Batteries. <b>2022</b> , 38, 11610-11620	1
495	Ultrafine Mix-Phase SnO-SnO2 Nanoparticles Anchored on Reduced Graphene Oxide Boost Reversible Li-Ion Storage Capacity beyond Theoretical Limit. <b>2022</b> , 16, 15358-15368	Ο

494	Regulating Polysulfide Conversion Kinetics Using Tungsten Diboride as Additive For High-Performance Liß Battery. 2203222	1
493	Effect of a One-Dimensional Columnar Structure on the Cathode Active Material Performance of Single-Component Hexaazatriphenylene Derivatives.	O
492	Pre-constructed SEI on graphite-based interface enables long cycle stability for dual ion sodium batteries. <b>2022</b> , 107832	0
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490	Anion doping in LiCoO2 cathode materials for Li-ion batteries: a first-principles study.	0
489	Enthalpic and Entropic Contributions to Fast Lithium Ion Conduction in Solid-State Aqueous Polymer Electrolytes. <b>2022</b> , 126, 16777-16784	Ο
488	Soft-rigid sandwich-structured hybrid electrolytes based on polymer-in-ceramic electrolytes for stable-cycle solid-state lithium-metal batteries.	0
487	Conductivity enhancement within garnet-rich polymer composite electrolytes via the addition of succinonitrile.	Ο
486	Facile synthesis of yolk-shell CoS2@FeS2@NC hollow microspheres for advanced lithium-ion batteries anode materials.	0
485	Stabilizing Li-rich Layered Cathode Materials using a LiCoMnO4 Spinel Nanolayer for Li-ion Batteries. <b>2022</b> , 12, 3425	O
484	Columnar Liquid-crystalline Triazine-based Dendrimer with Carbon Nanotube Filler for Efficient Organic Lithium-ion Batteries. <b>2022</b> , 141306	0
483	2D Dumbbell Silicene as a High Storage Capacity and Fast Ion Diffusion Anode for Li-Ion Batteries.	Ο
482	Understanding the role of Co in the Ni-rich cathode materials for Li-ion batteries.	Ο
481	Construction of Polyvinylidene Fluoride Buffer Layers for Li1.3Al0.3Ti1.7(PO4)3 Solid-State Electrolytes toward Stable Dendrite-Free Lithium Metal Batteries.	Ο
480	Modeling contact behavior of multi particles and particle-current collector contact in porous electrode.	2
479	Metal organophosphates: electronic structure tuning from inert materials to universal alkali-metal-ion battery cathodes.	O
478	Solid-State NMR Studies of Coatings and Interfaces in Batteries. <b>2022</b> , 101638	0
477	Recent advances in NASICON-type oxide electrolytes for solid-state sodium-ion rechargeable batteries.	O

476	Flame-Retardant Crosslinked Polymer Stabilizes GraphiteBilicon Composite Anode for Self-Extinguishing Lithium-Ion Batteries. 2202779	О
475	Poly(ethylene oxide)-Based Composite Electrolyte with Lithium-Doped High-Entropy Oxide Ceramic Enabled Robust Solid-State Lithium-Metal Batteries.	O
474	Lithiophilic SnF2 modification on carbon fiber cloth enabling uniform Li deposition for stable lithium metal anodes. <b>2022</b> , 655, 130196	О
473	Metallothermic-synchronous construction of compact dual-two-dimensional MoS2-graphene composites for high-capacity lithium storage. <b>2022</b> , 103, 107850	1
472	In-situ synthesis of porous metal fluoride@carbon composite via simultaneous etching/fluorination enabled superior Li storage performance. <b>2022</b> , 103, 107862	2
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469	Stabilizing Surface of Ni-Rich Cathode via Facing-Target Sputtering for High-Performance Lithium-Ion Batteries.	О
468	Molecular engineering of fluoroether electrolytes for lithium metal batteries.	О
467	Strategies and challenges of carbon materials in the practical applications of lithium metal anode: a review.	2
466	Towards the Intercalation and Lithium Plating Mechanism for High Safety and Fast-Charging Lithium-ion Batteries: A Review. 1,	О
465	Development of Vang Danh anthracite as a cost-effective anode for sodium-ion batteries through a heat-treatment process. <b>2022</b> , 12, 29900-29907	О
464	The Impact of Residual Solvent on Catholyte Performance in Solid-State Batteries.	О
463	The Role of Interfaces in Ionic Liquid-Based Hybrid Materials (Ionogels) for Sensing and Energy Applications. 2201405	3
462	Transition Metal Carbides Filler-Reinforced Composite Polymer Electrolyte for Solid-State Lithium-Sulfur Batteries at Room Temperature: Breakthrough. <b>2022</b> , 15, 7827	0
461	Revealing solid electrolyte interphase formation through interface-sensitive Operando X-ray absorption spectroscopy. <b>2022</b> , 13,	2
460	Scalable Fabrication of Si-Graphene Composite as Anode for Li-ion Batteries. <b>2022</b> , 12, 10926	1
459	Solvent-free protic liquid enabling batteries operation at an ultra-wide temperature range. <b>2022</b> , 13,	O

458	Coupled Electrochemical-Thermal-Mechanical Modeling and Simulation of Lithium-Ion Batteries. <b>2022</b> , 169, 100535	O
457	Core-shell structure and 3D CNTs networks promote Si@Cu nanoparticle anodes with enhanced reversible capacity and cyclic performance for Li-ion batteries. <b>2022</b> ,	O
456	Electrochemical performance of KTiOAsO4 (KTA) in potassium-ion batteries from density-functional theory. <b>2022</b> , 6,	0
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454	Unveiling the relationship between micro characteristics of particles and electrode performance in a 60 Ah high-energy-density Li-ion pouch cell. <b>2022</b> , 141330	O
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452	Preparation of silicon/carbon hybrid anodes for high performance lithium-ion batteries. 2022,	O
451	Binary Metal Single Atom Electrocatalysts with Synergistic Catalytic Activity toward High-Rate and High Areal-Capacity LithiumBulfur Batteries. 2208666	3
450	Latticed-Confined Conversion Chemistry of Battery Electrode. 2204912	1
449	Atomic-Scale Cryo-TEM Studies of the Thermal Runaway Mechanism of Li1.3Al0.3Ti1.7P3O12 Solid Electrolyte. 3855-3863	1
448	Ultrathin Ti 3 C 2 T x nanosheets modified separators for Lithium-sulfur batteries.	O
447	BC2N nanotube as a promising anode for rechargeable calcium ion batteries. <b>2022</b> , 126926	O
446	Homogenous metallic deposition regulated by abundant lithiophilic sites in nickel/cobalt oxides nanoneedle arrays for lithium metal batteries. <b>2022</b> ,	O
445	Improved Low-Temperature Performance of Li-S Batteries via Bolid-Solid©onversion of Sulfur. <b>2022</b> , 169, 100529	O
444	Suppressing Chemical Corrosions of Lithium Metal Anodes. 2202012	O
443	V 2 O 5 as a versatile electrode material for post-lithium energy storage systems.	O
442	Graphene Quantum Dots: Novel Properties and Their Applications for Energy Storage Devices. <b>2022</b> , 12, 3814	2
441	Unraveling the Nature and Role of Layered Cation Ordering in Cation-Disordered Rock-Salt Cathodes. <b>2022</b> , 144, 19838-19848	O

440	Significant regulation of stress on the contribution of optical phonons to thermal conductivity in layered Li2ZrCl6: First-principles calculations combined with the machine-learning potential approach. <b>2022</b> , 121, 172201	1
439	Accurate Electronic Properties and Intercalation Voltages of Olivine-Type Li-Ion Cathode Materials from Extended Hubbard Functionals. <b>2022</b> , 1,	1
438	How to Promote the Industrial Application of SiO x Anode Prelithiation: Capability, Accuracy, Stability, Uniformity, Cost, and Safety. 2202342	1
437	Tailoring grain boundary structures and chemistry of Li7La3Zr2O12 solid electrolytes for enhanced air stability. <b>2022</b> ,	o
436	Improved electrochemical properties of nickel-rich cathode with aluminum-titanium doping and lithium phosphate coating. <b>2022</b> , 386, 116051	0
435	Infrared Spectroscopy of Li+ Solvation in EmimBF4 and in Propylene Carbonate: Ab Initio Molecular Dynamics and Experiment.	0
434	Lithium-ion battery separators based-on nanolayer co-extrusion prepared polypropylene nanobelts reinforced cellulose. <b>2022</b> , 121120	О
433	Facile molten salt synthesis of carbon-anchored TiN nanoparticles for durable high-rate lithium-ion battery anodes. <b>2022</b> , 1, 045102	o
432	Manganese-based NASICON structured Na1+2Mn Ti2-(PO4)3 as promising cathode in aqueous sodium ion battery. <b>2022</b> , 167872	О
431	Rose-like VS2 Self-Assembled from Nanosheets with Superior Sodium Storage Performance.	o
430	Recent Progress in Constructing Halogenated Interfaces for Highly Stable Lithium Metal Anodes. <b>2022</b> ,	1
429	An overlooked parameter in Li-S batteries: The impact of electrolyte-to-sulfur ratio on capacity fading. <b>2022</b> , 104, 107913	1
428	A review on recent key technologies of lithium-ion battery thermal management: External cooling systems. <b>2022</b> , 16, 100703	1
427	Enhanced electrochemical performance of NASICON-type sodium ion cathode based on charge balance theory. <b>2022</b> , 53, 881-889	2
426	Tuning the interface interaction between Nb2O5 nanosheets/graphene for high current rate and long cyclic lithium-ion batteries. <b>2022</b> , 435, 141397	0
425	Phenothiazine/reduced graphene oxide composite as a pseudocapacitive cathode for lithium ion capacitors. <b>2022</b> , 434, 141340	1
424	Recycled value-added circular energy materials for new battery application: Recycling strategies, challenges, and sustainability-a comprehensive review. <b>2022</b> , 10, 108728	O
423	Dealloying-induced modulation upon porous layer depth of three-dimensional copper current collector for improving lithium plating/stripping capability. <b>2022</b> , 435, 141337	O

422	State-of-electrode (SOE) analytics of lithium-ion cells under overdischarge extremes. 2023, 54, 60-74	O
421	A poly(ether block amide) based solid polymer electrolyte for solid-state lithium metal batteries. <b>2023</b> , 630, 595-603	O
420	Anti-pulverization intermetallic FeBn anchored on N-doped carbon anode boosted superior power and stable lithium storage. <b>2023</b> , 553, 232272	О
419	Constructing a 700 Wh kgll-level rechargeable lithium ulfur pouch cell. <b>2023</b> , 76, 181-186	O
418	Structure dependence of fracture toughness and ionic conductivity in lithium borophosphate glassy electrolytes for all-solid-state batteries. <b>2023</b> , 553, 232302	О
417	A Li2CO3 sacrificial agent for anode-free lithium metal batteries. <b>2023</b> , 454, 140029	O
416	A nano rod-like \(\text{MnO2}\) supported on carbon nanotubes modified separator inhibiting polysulfide shuttle in Li-S batteries. <b>2023</b> , 933, 167767	0
415	Lithium sensors based on photophysical changes of 1-aza-12-crown-4 naphthalene derivatives synthesized via BuchwaldHartwig amination. <b>2022</b> , 12, 31976-31984	O
414	Polysulfide shuttle mitigation through a tailored separator for critical temperature energy-dense lithiumBulfur batteries.	О
413	Mediating the Li Diffusion Path in Composite Polymer Electrolytes by mesoporous SBA-15 for All-Solid-State Lithium Batteries.	O
412	Remaining useful life prediction of the lithium-ion battery based on CNN-LSTM fusion model and grey relational analysis. <b>2022</b> , 31, 633-655	1
411	Evidence of a reversible redox reaction in a liquid-electrolyte-type fluoride-ion battery. <b>2022</b> , 12, 31786-3179	010
410	A novel strategy via electrode catalysis induced nano transformation for lithiated-bimetallic-oxides to avoid the long activation process of advanced lithium-ion batteries.	0
409	Enhancing the reversibility of Li deposition/dissolution in sulfur batteries using high-concentration electrolytes to develop anode-less batteries with lithium sulfide cathode. <b>2023</b> , 554, 232323	O
408	Separators with reactive metal oxide coatings for dendrite-free lithium metal anodes. <b>2023</b> , 555, 232336	О
407	Controlled prelithiation of siloxene nanosheet anodes enables high performance 5D-class lithium-ion batteries. <b>2023</b> , 454, 140136	O
406	Rapid discovery of inorganic-organic solid composite electrolytes by unsupervised learning. <b>2023</b> , 454, 140151	0
405	Effective stripping and reutilization of LiFePO4 cathode waste from retired lithium ion batteries. <b>2022</b> ,	O

404	Focus on the Electroplating Chemistry of Li Ions in Nonaqueous Liquid Electrolytes: Toward Stable Lithium Metal Batteries. <b>2022</b> , 5,	O
403	Decavanadate-Type Polyoxometalate Anions Encapsulated in a MIL-100 Framework with Enhanced Mixed IonElectron Conduction and Potential Application as Cathode Materials for a Lithium Ion Battery.	0
402	Probing Capacity Trends in MLi2Ti6O14 Lithium-Ion Battery Anodes Using Calorimetric Studies.	Ο
401	Advances of Carbon Materials for Dual-Carbon Lithium-Ion Capacitors: A Review. <b>2022</b> , 12, 3954	О
400	Highly Stable Lithium Metal Anode Enabled by Constructing Lithiophilic 3D Interphase on Robust Framework. <b>2022</b> , 140468	1
399	Recent advances and perspectives for Zn-based batteries: Zn anode and electrolyte. <b>2022</b> ,	2
398	High-performance Aqueous Zinc-organic Battery Achieved by Reasonable Molecular Design.	0
397	Electrochemical Modeling in a Building Blocks[Way. <b>2022</b> , 140419	Ο
396	Understanding and Control of Activation Process of Lithium-Rich Cathode Materials. 2022, 5,	0
395	Li reaction pathways in Ge and high-performance Ge nanocomposite anodes for Li-ion batteries. <b>2022</b> , 140329	Ο
394	The electronic and geometric structure modifications of LiFePO4 with vanadium doping to achieve ultrafast discharging capability: The experimental and theoretical investigations. <b>2022</b> , 168035	0
393	Electrochemical Performance of Highly Ion-Conductive Polymer Electrolyte Membranes Based on Polyoxide-tetrathiol Conetwork for Lithium Metal Batteries.	1
392	First principles study of S-repaired ultra-thin InSe electrodes for ion storage and transport. <b>2022</b> , 140196	O
391	Local Electric Field-Promoted Kinetics and Interfacial Stability of Phosphorus Anode with Ionic Covalent Organic Framework. 2208514	1
390	Sensitivity of structural and electronic properties of Li-ion battery cathode materials to Hubbard U correction: an efficient first-principle approach. <b>2022</b> , 97, 125819	0
389	Building Polymeric Framework Layer for Stable Solid Electrolyte Interphase on Natural Graphite Anode. <b>2022</b> , 27, 7827	Ο
388	Vanadium Oxide-Poly(3,4-ethylenedioxythiophene) Nanocomposite as High-Performance Cathode for Aqueous Zn-Ion Batteries: The Structural and Electrochemical Characterization. <b>2022</b> , 12, 3896	О
387	Li8ZrO6 as a Pre-lithiation Additive for Lithium-Ion Batteries.	Ο

386	Closed-Loop Regeneration of a Spent LiFePO4 Cathode by Integrating Oxidative Leaching and Electrochemical Relithiation.	Ο
385	Nanographene Cathode Materials for Nonaqueous Zn-Ion Batteries. <b>2022</b> , 169, 110517	Ο
384	Lithium hexamethyldisilazide as electrolyte additive for efficient cycling of high-voltage non-aqueous lithium metal batteries. <b>2022</b> , 13,	3
383	Operando X-ray Studies of Ni-Containing Heteropolyvanadate Electrode for High-Energy Lithium-Ion Storage Applications.	O
382	Methodological Studies of the Mechanism of Anion Insertion in Nanometer-Sized Carbon Micropores.	O
381	Imine-Linked Triazine-Based Conjugated Microporous Polymers/carbon nanotube composites as Organic Anode Materials for Lithium-Ion Batteries. <b>2022</b> , 130496	O
380	Electrochemical characterizations of carbon decorated tin doped lithium titanate for lithium-ion battery anode applications. <b>2022</b> , 926, 116952	2
379	Ultra-fast non-equilibrium synthesis of cathode materials for Li-ion batteries. 2208974	O
378	Atomically Interlocked Chemistry Activated by Interstitial Sites in LiMn 2 O 4 Cathode. 2210731	0
377	Highly Conductive Solid Polymer Electrolytes by para-Fluoro/Thiol Clicked Diblock Copolymer Self-Assembly: Paving the Way for Nanostructured Materials for Lithium-Ion Conductivity.	O
376	Secondary ZincAir Batteries: A View on Rechargeability Aspects. <b>2022</b> , 8, 244	0
375	The protective effect and its mechanism for electrolyte additives on the anode interface in aqueous zinc-based energy storage devices. <b>2022</b> ,	0
374	Multi-Ionic Capacity of Zn-Al/V 6 O 13 Systems Enable Fast-Charging and Ultra-Stable Aqueous Aluminium-Ion Batteries. <b>2022</b> , 9,	0
373	Oxide Cathodes: Functions, Instabilities, Self Healing, and Degradation Mitigations.	O
372	Prospective strategies for extending long-term cycling performance of anode-free lithium metal batteries. <b>2023</b> , 54, 689-712	1
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370	Revealing the surface-to-bulk degradation mechanism of nickel-rich cathode in sulfide all-solid-state batteries. <b>2023</b> , 54, 713-723	0
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368	Advances in Fine Structure Optimizations of Layered Transition-Metal Oxide Cathodes for Potassium-Ion Batteries. 2202861	O
367	Metal-organic frameworks-derived advanced oxygen electrocatalysts as air-cathodes for Zn-air batteries: Recent trends and future perspectives.	0
366	Electrochemical methods contribute to the recycling and regeneration path of lithium-ion batteries. <b>2023</b> , 55, 606-630	0
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364	Design of phase-structure for sodium chloride solid electrolytes with outstanding performance: First-principles approach.	0
363	Conformal carbon nitride thin film inter-active interphase heterojunction with sustainable carbon enhancing sodium storage performance.	O
362	Origin of over-cycling tolerance achieved by metal phosphate coating for transition metal oxide lithium-ion batteries. <b>2023</b> , 389, 116105	0
361	Ether-Based Electrolytes enable Nitrogen and Sulfur Co-doped 3D Graphene Frameworks for High-performance Sodium-Ion Batteries.	Ο
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359	Unraveling the intercalation chemistry of multi-electron reaction for polyanionic cathode Li3V2(PO4)3. <b>2023</b> , 55, 546-555	0
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357	Structure regulation induced high capacity and ultra-stable cycling of conjugated organic cathodes for Li-ion batteries. <b>2022</b> , 11, 77-83	Ο
356	A multifunctional composite membrane for high-safety lithium-ion batteries.	0
355	A semi-fluid multi-functional binder for a high-performance silicon anode of lithium-ion batteries.	1
354	A Single Ion Gel Polymer Electrolyte based on Polyimide Grafted with Lithium 3-Chloropropanesulfonyl (Trifluoromethanesulfonyl) imide for High Performance Lithium Ion Batteries.	1
353	Search for stable host materials as low-voltage anodes for lithium-ion batteries: A mini-review. <b>2023</b> , 55, 364-387	0
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335	Emerging Chalcohalide Materials for Energy Applications.	1
334	Transient Modeling of a Vanadium Redox Flow Battery and Real-Time Monitoring of Its Capacity and State of Charge. <b>2022</b> , 61, 17557-17571	O
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323	Recent Advances in Electrolytes for Potassium-Ion Batteries. 2211290	O
322	Advances and Developments in Batteries and Charging Technologies. 2022, 27-46	Ο
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316	Self-Healing Polymers and Composites for Additive Manufacturing: Materials, Properties, and Applications. <b>2023</b> , 219-248	1
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313	Fluorinated Solid-State Electrolytes for Lithium Batteries: Interface Design and Ion Conduction Mechanisms.	O
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311	First-Principles Investigation of Charged GermaGraphene as a Novel Cathode Material for Dual-Carbon Batteries.	O
310	Synthesis of LiNi 0.6 Co 0.2 Mn 0.2 O 2 Using Supercritical Carbon Dioxide as a Cathode Material for Lithium-Ion Batteries.	1
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308	Processable Potassium Larbon Nanotube Film with a Three-Dimensional Structure for Ultrastable Metallic Potassium Anodes. <b>2022</b> , 14, 55577-55586	1
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292	Ultra-Thin Layer Inside Separator Deposited by Spray Pyrolysis Using Methylaluminoxane Solution. 2200203	О
291	Defect Chemistry in Zn3V4(PO4)6. <b>2023</b> , 9, 5	Ο
290	Soccerene-like Li4Ti5O12/C as anode fast-charging Li-ion batteries. <b>2022</b> , 117101	0
289	Optimization for ultrahigh specific capacity and superior temperature control in a Li-ion battery cell. <b>2023</b> , 98, 015710	O
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286	A self-healing and nonflammable cross-linked network polymer electrolyte with the combination of hydrogen bonds and dynamic disulfide bonds for lithium metal batteries.	0
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283	Chitosan modulated engineer tin dioxide nanoparticles well dispersed by reduced graphene oxide for high and stable lithium-ion storage. <b>2022</b> ,	O
282	Amino-Acid-Substituted Perylene Diimide as the Organic Cathode Materials for Lithium-Ion Batteries. <b>2023</b> , 16, 839	O
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279	A Thermodynamic Cycle-Based Electrochemical Windows Database of 308 Electrolyte Solvents for Rechargeable Batteries. 2212342	1

278	Solvothermal synthesis-driven quaternary Ni-rich cathode for stability-improved Li-ion batteries. <b>2023</b> , 146, 107426	0
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276	Towards commercialization of fluorinated cation-disordered rock-salt Li-ion cathodes. 11,	0
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274	Reversible Iron Oxyfluoride (FeOF)-Graphene Composites as Sustainable Cathodes for High Energy Density Lithium Batteries. 2206947	0
273	A Comparison of Carbonate-Based and Ether-Based Electrolyte Systems for Lithium Metal Batteries.	O
272	Screening chloride li-ion conductors using high-throughput force field molecular dynamics.	0
271	UV-cured Polymer Solid Electrolyte Reinforced using a Ceramic-Polymer Composite Layer for Stable Solid-State Li Metal Batteries.	O
270	On the Road to the Frontiers of Lithium-ion Batteries: A Review and Outlook of Graphene Anodes. 2210734	0
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267	Polymer dispersed ionic liquid electrolytes with high ionic conductivity for ultrastable solid-state lithium batteries.	O
266	Solvent-Free Processed Cathode Slurry with Carbon Nanotube Conductors for Li-Ion Batteries. <b>2023</b> , 13, 324	0
265	Supramolecular Engineering of Cathode Materials for Aqueous Zinc-ion Hybrid Supercapacitors: Novel Thiophene-bridged Donor-Acceptor sp2 Carbon-linked Polymers.	O
264	Applications of In Situ Raman Spectroscopy on Rechargeable Batteries and Hydrogen Energy Systems.	0
263	Investigation and Optimization of Fast Cold Start of 18650 Lithium-Ion Cell by Heating Film-Based Heating Method. <b>2023</b> , 16, 750	O
262	Selecting the Optimal Fluorinated Ether Co-Solvent for Lithium Metal Batteries. 2023, 15, 2804-2811	O
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260	Gradient H-Bonding Supports Highly Adaptable and Rapidly Self-Healing Composite Binders with High Ionic Conductivity for Silicon Anodes in Lithium-Ion Batteries. 2200822	O
259	Analytical modeling of a multilayer, multimorph lithium-ion battery actuator. 1045389X2211365	O
258	Basics of Scanning Electrochemical Microscope and its Application in Characterizations of Lithium-Ion Batteries: A Brief Review.	O
257	Enabling interfacial stability of LiCoO2 batteries at ultrahigh cutoff voltage $\square$ 4.65 V with synergetic electrolyte strategy.	O
256	Passivating Lithiated Graphite via Targeted Repair of SEI to Inhibit Exothermic Reactions in EarlyBtage of Thermal Runaway.	O
255	Dendritic sulfonated polyethersulfone nanofiber membrane@LaCoO3 nanowire-based composite solid electrolytes with facilitated ion transport channels for high-performance all-solid-state lithium metal batteries.	O
254	High-Voltage Deprotonation of Layered-Type Materials as Newly Identified Cause of Electrode Degradation.	1
253	Passivating Lithiated Graphite via Targeted Repair of SEI to Inhibit Exothermic Reactions in EarlyStage of Thermal Runaway.	O
252	In-operando GC-MS: a new tool for the understanding of degradation processes occurring in electrochemical capacitors. <b>2023</b> ,	О
251	Effective SEI Formation via Phosphazene-Based Electrolyte Additives for Stabilizing Silicon-Based Lithium-Ion Batteries. 2203503	O
250	Dual-functional vinylpyrrolidone electrolyte additive as anode surface leveler and cathode catalyst for lithium Metal-Oxygen batteries. <b>2023</b> , 458, 141383	O
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247	Li2Se as cathode additive to prolong the next generation high energy lithium-ion batteries. <b>2023</b> , 36, 102610	O
246	Mn2+ doped BaSnF4-based solid state electrolyte for room-temperature fluoride ion batteries. <b>2023</b> , 930, 117145	О
245	Future potential for lithium-sulfur batteries. <b>2023</b> , 558, 232566	O
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243	Interfaces and interphases in batteries. <b>2023</b> , 559, 232652	1

242	Insights on the degradation mechanism for large format prismatic graphite/LiFePO4 battery cycled under elevated temperature. <b>2023</b> , 60, 106624	О
241	Zincophilic polyurethane-based porous film enables dendrite-free zinc anode for reversible aqueous zinc-based batteries. <b>2023</b> , 661, 130960	1
240	Aging diagnosis-oriented three-scale impedance model of lithium-ion battery inspired by and reflecting morphological evolution. <b>2023</b> , 59, 106357	1
239	Carbon-coated LiTi2(PO4)3 composites synthesized through tannic acid with high rate performance for aqueous lithium-ion batteries. <b>2023</b> , 939, 168704	O
238	N-doped carbon coated Ga2O3 nanotubes as anode materials for Li-ion battery to achieve superior performance. <b>2023</b> , 940, 168869	О
237	Atomic-level understanding on progressive lithiation of few-layer MoS2 with surface vacancies. <b>2023</b> , 939, 168663	O
236	Influence of incorporation of Fe2O3 content on the structural and the dielectric relaxation properties of lithium boro-vanadate oxide glass: toward ideal cathode glasses. <b>2023</b> , 129,	О
235	Spatially Offset Raman Spectroscopy for Characterization of a Solid-State System. <b>2023</b> , 9, 20	O
234	Ionic Liquid-Modified Silicon Nanoparticles Composite Gel Polymer Electrolyte for High-Performance Lithium Batteries.	О
233	Solvent Molecule Design Enables Excellent Charge Transfer Kinetics for a Magnesium Metal Anode. <b>2023</b> , 8, 780-789	O
232	Toward High-Performance Mg-S Batteries via a Copper Phosphide Modified Separator.	1
231	Low-Cost ZincAlginate-Based HydrogelPolymer Electrolytes for Dendrite-Free Zinc-Ion Batteries with High Performances and Prolonged Lifetimes. <b>2023</b> , 15, 212	O
230	Lithium-Ion Battery Development with High Energy Density. 27, 806-813	О
229	Janus Dione-Based Conjugated Covalent Organic Frameworks with High Conductivity as Superior Cathode Materials. <b>2023</b> , 145, 1022-1030	O
228	A Nitro-Rich Small-Molecule-Based Organic Cathode Material for Effective Rechargeable Lithium Batteries. <b>2023</b> , 15, 1227-1233	O
227	Templated Synthesis of SiO2 Nanotubes for Lithium-Ion Battery Applications: An In Situ (Scanning) Transmission Electron Microscopy Study. <b>2023</b> , 8, 925-933	O
226	Flexible Sn-Based Composite Anode with High Cycle Stability for Micro Lithium-Ion Batteries. 2022,	О
225	A nano fibergel composite electrolyte with high Li+ transference number for application in quasi-solid batteries. <b>2022</b> , 100090	1

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223	One-Step Engineering Carbon Supported Magnetite Nanoparticles Composite in a Submicron Pomegranate Configuration for Superior Lithium-Ion Storage. <b>2023</b> , 16, 313	O
222	In Situ Solidified Gel Polymer Electrolytes for Stable Solid <b>B</b> tate Lithium Batteries at High Temperatures. <b>2023</b> , 9, 28	1
221	Lithium Metal: The Key to Green Transportation. <b>2023</b> , 13, 405	1
220	Laser-Assisted Surface Lithium Fluoride Decoration of a Cobalt-Free High-Voltage Spinel LiNi0.5Mn1.5O4 Cathode for Long-Life Lithium-Ion Batteries. <b>2023</b> , 15, 1247-1255	2
219	Challenges of lithium dendrite formation in solid-state batteries. <b>2023</b> , 95-127	O
218	Rational Design of Electrode Materials for Advanced Supercapacitors: From Lab Research to Commercialization. 2213095	0
217	Self-Standing 3D Hollow Nanoporous SnO 2 -Modified Cu x O Nanotubes with Nanolamellar Metallic Cu Inwalls: A Facile In Situ Synthesis Protocol toward Enhanced Li Storage Properties. 2212654	O
216	Designing Highly Conductive Sodium-Based Metal Hydride Nanocomposites: Interplay between Hydride and Oxide Properties. 2209122	0
215	Tremella-like Vanadium Tetrasulfide as a High-Performance Cathode Material for Rechargeable Aluminum Batteries. <b>2023</b> , 15, 6888-6901	O
214	Viable defect engineering with templates into metal oxides. <b>2023</b> , 355-385	0
213	Redox-Active, Sulfur-Containing Polymers. <b>2023</b> , 203-254	O
212	Facile synthesis of porous LiMn2O4 nano-cubes for ultra-stable lithium-ion battery cathodes.	0
211	Fluorine-regulated cathode electrolyte interphase enables high-energy quasi-solid-state lithium metal batteries. <b>2023</b> , 122, 043903	O
210	Improving the electrochemical performance of LiNi0.5Mn1.5O4 cathode material by a coating of manganese phosphate.	0
209	Enhancing Performance of LiFePO4 Battery by Using a Novel Gel Composite Polymer Electrolyte. <b>2023</b> , 9, 51	O
208	Surfactant-Mediated Synthesis of Novel Mesoporous Hollow CuO Nanotubes as an Anode Material for Lithium-Ion Battery Application. <b>2023</b> , 8,	0
207	MOFs Containing Solid-State Electrolytes for Batteries. 2206887	O

206	Enabling All-Solid-State Li Metal Batteries Operated at 30 LC by Molecular Regulation of Polymer Electrolyte. 2203547	0
205	Solid-state batteries based on composite polymer electrolytes. <b>2023</b> , 47-80	О
204	On the disparity in reporting Li-rich layered oxide cathode materials.	0
203	Molybdenum Vanadium Oxides as Intercalation Hosts for Chloroaluminate Anions. <b>2023</b> , 9, 92	O
202	Uniform Formation of a Characteristic Nanocomposite Structure of Biogenous Iron Oxide for High Rate Performance as the Anode of Lithium-Ion Batteries. <b>2023</b> , 127, 2223-2230	0
201	Double Conductor Coating to Improve the Structural Stability and Electrochemical Performance of LiNi0.8Co0.1Mn0.1O2 Cathode Material.	O
200	Efficient Regulation of Polysulfides by MoS 2 /MoO 3 Heterostructures for High-Performance Li-S Batteries. 2206083	0
199	Investigating the effect of pH on the growth of coprecipitated Ni0.8Co0.1Mn0.1(OH)2 agglomerates as precursors of cathode materials for Li-ion batteries. <b>2023</b> ,	O
198	Inhibiting collective cation migration in Li-rich cathode materials as a strategy to mitigate voltage hysteresis.	0
197	Synthesis and applications of biomass-derived carbonaceous materials. <b>2023</b> , 559-578	О
196	Fast Li + Transport via Silica Network-Driven Nanochannels in Ionomer-in-Framework for Lithium Metal Batteries. 2210916	0
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184	Exploring the structural properties of cathode and anode materials in Li-ion battery via neutron diffraction technique. <b>2023</b> , 100032	0
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182	Mitigating Swelling of the Solid Electrolyte Interphase using an Inorganic Anion Switch for Low-temperature Lithium-ion Batteries. <b>2023</b> , 135,	0
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180	Recent Advancement and Structural Engineering in Transition Metal Dichalcogenides for Alkali Metal Ions Batteries. <b>2023</b> , 16, 2559	O
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177	Enhanced zinc ion storage performance of V2O5hH2O prepared by hydrothermal method with the assistance of sodium dodecylbenzene sulfonate. <b>2023</b> , 131459	O
176	Hybrid films constructed by carbon nanotubes and carbon nanocoils as current collectors for lithium-ion batteries. <b>2023</b> , 935, 117288	0
175	Inkjet-Printed Graphene-Modified Aluminum Current Collector for High-Voltage Lithium-Ion Battery.	O
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173	Sulfur-grafted hard carbon with expanded interlayer spacing and increased defects for high stability potassium-ion batteries. <b>2023</b> , 393, 116172	O
172	Identification of Potential Electrolyte Additives via Density Functional Theory Analysis. 2023, 8,	0
171	High stability of solid electrolyte interphase in lithium metal batteries enabled by direct fluorination on metal iron powder. <b>2023</b> , 121, 445-451	O

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169	Governing failure mechanisms of simplified three-way dendritic branch under compressive load. <b>2023</b> , 180, 104620	Ο
168	Design strategies for coordination polymers as electrodes and electrolytes in rechargeable lithium batteries. <b>2023</b> , 483, 215084	0
167	Al2O3/ZnO composite-based sensors for battery safety applications: An experimental and theoretical investigation. <b>2023</b> , 109, 108301	О
166	Highly conductive polyacrylonitrile-based hybrid aqueous/ionic liquid solid polymer electrolytes with tunable passivation for Li-ion batteries. <b>2023</b> , 453, 142349	0
165	Enhanced lithium storage capability of Ni-rich LiNi0.9CoxMn0.1NO2(0IkID.1) cathode by co-operation of Al-doping and V-coating. <b>2023</b> , 946, 169428	O
164	Enhanced Na+ diffusion in Na3V2(PO4)2F2O cathodes via Zr4+ doping for high-rate and long-cycling sodium batteries. <b>2023</b> , 945, 169314	0
163	Suppressing storage-induced degradation of Li7La3Zr2O12 via encapsulation with hydrophobicity-tailored polymer nanolayer. <b>2023</b> , 453, 142358	Ο
162	An efficient method for separation of Ni(II) and Co(II) with novel extractant NNPA: Synthesis, characterization, extraction behaviors, crystal structures and DFT computational studies. <b>2023</b> , 11, 109815	0
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160	Potential use of silicon carbide monolayer as an anode in rechargeable Mg-ion batteries. <b>2023</b> , 177, 111270	О
159	UV-photopolymerized cellulose acetate-acrylate membranes for lithium-ion battery separator. <b>2023</b> , 667, 131359	О
158	Solid-state approach for synthesizing single crystal LiNi0.8Co0.1Mn0.1O2 cathode of lithium-ion batteries. <b>2023</b> , 946, 169358	0
157	Fundamentals, recent developments and prospects of lithium and non-lithium electrochemical rechargeable battery systems. <b>2023</b> , 81, 221-259	O
156	Progressive activation of porous vanadium nitride microspheres with intercalation-conversion reactions toward high performance over a wide temperature range for zinc-ion batteries. <b>2023</b> , 640, 487-497	0
155	Revealing structural degradation in layered structure oxides cathode of lithium ion batteries via in-situ transmission electron microscopy. <b>2023</b> , 154, 189-201	O
154	Deciphering the critical effect of cathode-electrolyte interphase by revealing its dynamic evolution. <b>2023</b> , 81, 192-199	0
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152	Multifunctional polymer electrolyte membrane networks for energy storage via ion-dipole complexation in lithium metal battery. <b>2023</b> , 64, 107138	0
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144	Molecular Design of Asymmetric Cyclophosphamide as Electrolyte Additive for High-Voltage Lithium-Ion Batteries. 2241-2251	0
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142	The Importance of Structural Uniformity and Chemical Homogeneity in Cobalt-Free Lithium Excess Nickel Manganese Oxide Cathodes.	0
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135	Interface problems, modification strategies and prospects of Nifich layered oxide cathode materials in allBolidBtate lithium batteries with sulfide electrolytes. <b>2023</b> , 571, 233079	Ο

134	Towards advanced lithium metal solid-state batteries: Durable and safe multilayer pouch cell enabled by a nanocomposite solid electrolyte. <b>2023</b> , 392, 116148	О
133	Nickel ion-anchored helical braided binder network with soft-rigid synergy and self-recovery ability for high-performance silicon anode. <b>2023</b> , 560, 232671	O
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49	Multifunctional Electrochromic Devices for Energy Applications. <b>2023</b> , 8, 1870-1886	O
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42	Two-Dimensional Mesoporous Materials for Energy Storage and Conversion: Current Status, Chemical Synthesis and Challenging Perspectives. <b>2023</b> , 6,	О
41	Constructing a conductive and buffer network on microscale silicon-based anodes for high-performance lithium-ion batteries. <b>2023</b> , 949, 169846	О
40	Zwitterionic poly(ionic liquids)-based polymer electrolytes for Lithium-ion batteries applications.	O
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38	Tuning Fluorination of Carbonates for Lithium-Ion Batteries: A Theoretical Study. <b>2023</b> , 127, 3026-3040	О
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35	Activating the paddle-wheel effect towards lower temperature in a new sodium-ion solid electrolyte, Na3.5Si0.5P0.5Se4.	О
34	In Situ Polymerization Anchoring Effect Enhancing the Structural Stability and Electrochemical Performance of the LiNi0.8Co0.1Mn0.1O2 Cathode Material. <b>2023</b> , 15, 19075-19084	Ο
33	Localized high-concentration electrolytes for lithium metal batteries: progress and prospect.	О
32	Voltage Hysteresis in Transition Metal Oxide Cathodes for Li/Na-Ion Batteries.	О
31	Emerging electrolytes with fluorinated solvents for rechargeable lithium-based batteries.	О
30	Lithium-Mediated Mechanochemical Cyclodehydrogenation. 2023, 145, 8163-8175	О
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28	Advanced separator engineering strategies for reversible electrochemical zinc storage.	O
27	Novel Lamellar Se4P4/Graphene Hybrid Anode Stimulated Durable Potassium Storage. <b>2023</b> , 37, 6177-6185	O

26	Insight into the effects of S-vacancy and O-doping in monolayer VS2 as lithium-ion battery anodes from first-principles calculations. <b>2023</b> , 38, 102851	О
25	Engineering Peculiar Cathode Electrolyte Interphase toward Sustainable and High-Rate Li <b>S</b> Batteries.	O
24	Recent Progress in and Perspectives on Emerging Halide Superionic Conductors for All-Solid-State Batteries. <b>2023</b> , 6,	O
23	A Review of Cobalt-Based Metal Hydroxide Electrode for Applications in Supercapacitors. <b>2023</b> , 2023, 1-15	O
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20	Superb High-Voltage Performance of LiCoO2 with Structure and Surface Highly Stabilized by Co-Doping Trace Mg and F during One-Pot Solid-State Synthesis. <b>2023</b> , 101313	Ο
19	Indispensable Assets for Rechargeable World. <b>2023</b> , 28, 577-596	O
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17	Boosting the Na-Ion Conductivity in the Cluster-Ion Based Anti-Perovskite Na 2 BH 4 NH 2.	O
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15	In-situ formed hybrid phosphates coating layer enabling Co-free Li-rich layered oxides with stable cycle performance. <b>2023</b> , 101314	O
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9	Electrolyte-Wettability Issues and Challenges of Electrode Materials in Electrochemical Energy Storage, Energy Conversion, and Beyond.	O

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7	The Relevance of Lithium Salt Solvate Crystals in Superconcentrated Electrolytes in Lithium Batteries. <b>2023</b> , 16, 3700	O
6	Polylatic Acid Nanofiber-Guided Uniform Lithium Deposition for Stable Lithium Metal Anodes. <b>2023</b> , 170, 050517	0
5	Structure and Interface Engineering of Ultrahigh-Rate 3D Bismuth Anodes for Sodium-Ion Batteries.	O
4	Geometry-influenced cooling performance of lithium-ion battery. 2023, 230, 120723	0
3	Application of T4,4,4-graphyne for anode of Na-ion battery: first principle theoretical study. 1-7	O
2	Polar Perturbations in Functional Oxide Heterostructures.	0
1	Mechanisms of adsorption and diffusion of Na on a VSe2 monolayer with engineering-induced vacancies.	O