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A review of lithium-ion battery safety concerns: The issues, strategies, and testing standards

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173	Effect of vinylene carbonate on SEI formation on LiMn2O4 in carbonate-based electrolytes. <b>2022</b> , 24, 25611-25619	1
172	Atomic-Scale Insight into the Lattice Volume Plunge of LixCoO2 at Deep Delithiation.	O
171	The Impact of Residual Solvent on Catholyte Performance in Solid-State Batteries.	0
170	The Mechanical Properties of Batteries and Supercapacitors. <b>2022</b> ,	O
169	A hierarchically encapsulated phase-change film with multi-stage heat management properties and conformable self-interfacing contacts for enhanced interface heat dissipation.	1
168	Energy Storage Applications. <b>2022</b> , 233-267	0
167	Radical-Scavenging Activatable and Robust Polymeric Binder Based on Poly(acrylic acid) Cross-Linked with Tannic Acid for Silicon Anode of Lithium Storage System. <b>2022</b> , 12, 3437	1
166	????k?K-means++?????????????????. <b>2022</b> ,	O
165	A ternary MnO/MnTiO3@C composite anode with greatly enhanced cycle stability for Li-ion batteries. <b>2022</b> ,	0
164	Experimental and kinetic study on the stabilities and gas generation of typical electrolyte solvent components under oxygen-lean oxidation and pyrolysis conditions.	O
163	Thermally Stable Polymer-Rich Solid Electrolyte Interphase for Safe Lithium Metal Pouch Cells.	3
162	Constructing Nonaqueous Rechargeable Zinc-Ion Batteries with Zinc Trifluoroacetate. <b>2022</b> , 5, 12437-12447	Ο
161	Thermally Stable Polymer-Rich Solid Electrolyte Interphase for Safe Lithium Metal Pouch Cells.	Ο
160	Effect of Lithium Salt Concentration on Materials Characteristics and Electrochemical Performance of Hybrid Inorganic/Polymer Solid Electrolyte for Solid-State Lithium-Ion Batteries. <b>2022</b> , 8, 173	1

159	A Paradox over Electric Vehicles, Mining of Lithium for Car Batteries. <b>2022</b> , 15, 7997	2
158	Thermal Electrical Tests for Battery Safety Standardization. <b>2022</b> , 15, 7930	O
157	Engineering the Comfort-of-Wear for Next Generation Wearables. 2200512	2
156	Simulation, Set-Up, and Thermal Characterization of a Water-Cooled Li-Ion Battery System. <b>2022</b> , 8, 177	О
155	A fractional-order model of lithium-ion battery considering polarization in electrolyte and thermal effect. <b>2022</b> , 141461	O
154	Polymer Electrolytes for Al-Air Batteries: Current State and Future Perspectives. <b>2022</b> , 36, 12875-12895	2
153	Li-Ion Diffusion Correlations in LiAlGeO4: Quasielastic Neutron Scattering and Ab Initio Simulation.	О
152	Possibilities for a Quick Onsite Safety-State Assessment of Stand-Alone Lithium-Ion Batteries. <b>2022</b> , 8, 213	O
151	Membrane Assemblies with Soft Protective Layers: Dense and Gel-Type Polybenzimidazole Membranes and Their Use in Vanadium Redox Flow Batteries. 2206284	1
150	Advances in paper-based battery research for biodegradable energy storage. <b>2022</b> , 1, 100037	1
149	Performance assessment of an electrode boiler for power-to-heat conversion in sustainable energy districts. <b>2022</b> , 277, 112569	2
148	A review on recent key technologies of lithium-ion battery thermal management: External cooling systems. <b>2022</b> , 16, 100703	1
147	Internal short circuit and thermal runaway evolution mechanism of fresh and retired lithium-ion batteries with LiFePO4 cathode during overcharge. <b>2022</b> , 328, 120224	O
146	Metal-organic framework-based catalysts for lithium-sulfur batteries. <b>2023</b> , 475, 214879	О
145	Comprehensive recycling of lithium-ion batteries: Fundamentals, pretreatment, and perspectives. <b>2023</b> , 54, 172-220	2
144	1,1,2,2-Tetrafluoroethyl-2,2,3,3-tetrafluoropropyl ether as an advanced electrolyte additive for SiO -based lithium-ion batteries. <b>2023</b> , 931, 167529	O
143	An interface-contact regulation renders thermally safe lithium metal batteries. 2023, 15, 100211	O
142	A Li2CO3 sacrificial agent for anode-free lithium metal batteries. <b>2023</b> , 454, 140029	O

141	Defect-rich Ni3S4☑ as a robust electrode material for supercapacitor and aqueous Ni-Zn battery applications. <b>2023</b> , 933, 167733	O
140	Off-grid Photovoltaic Systems Implementation for Electrification of Remote Areas: Experiences and Lessons Learned in the Pantanal Sul-Mato-Grossense Region of Brazil. 66,	O
139	Graphitic carbon nitride assisted PVDF-HFP based solid electrolyte to realize high performance solid-state lithium metal batteries. <b>2023</b> , 657, 130520	0
138	Reducing intrinsic drawbacks of Ni-rich layered oxide with a multifunctional materials dry-coating strategy. <b>2023</b> , 554, 232324	0
137	Role Of OEM's And Cell Manufacturer's For Safety In Electric Vehicles. 2021,	O
136	Nano-Heterostructured Materials - Based Sensors for Safety and Biomedical Applications. <b>2022</b> ,	Ο
135	What Differentiates Dielectric Oxides and Solid Electrolytes on the Pathway toward More Efficient Energy Storage?. <b>2022</b> , 8, 232	1
134	Research progress on Na3V2(PO4)2F3-based cathode materials for sodium-ion batteries. <b>2022</b> , 107978	O
133	Bench-scale fuel fire test for materials of rechargeable energy storage system housings.	О
132	State-Partial Accurate Voltage Fault Prognosis for Lithium-Ion Batteries Based on Self-Attention Networks. <b>2022</b> , 15, 8458	1
131	Nafion/ZrO2 hybrid membranes solvated by organic carbonates. Transport and mechanical properties. <b>2022</b> , 386, 116055	0
130	Phase Transitions and Physical Properties of the Mixed Valence Iron Phosphate Fe3(PO3OH)4(H2O)4. <b>2022</b> , 15, 8059	0
129	Design Optimization of Auxetic Structure for Crashworthy Pouch Battery Protection Using Machine Learning Method. <b>2022</b> , 15, 8404	0
128	Recycling of value-added products from spent lithium-ion batteries for oxygen reduction and methanol oxidation reactions. <b>2023</b> , 384, 135520	2
127	Chemistrythechanicsgeometry coupling in positive electrode materials: a scale-bridging perspective for mitigating degradation in lithium-ion batteries through materials design.	1
126	Synthesis and characterization of novel fluorinated nitriles as non-flammable and high-voltage electrolytes for lithium/lithium-ion batteries. <b>2023</b> , 557, 232557	0
125	Safety risk assessment method for thermal abuse of lithium-ion battery pack based on multiphysics simulation and improved bisection method. <b>2023</b> , 264, 126228	О
124	Deep-Dive analysis of the latest Lithium-Ion battery safety testing standards and regulations in Germany and China□2023, 173, 113077	O

123	On the design of multisine signals for maintaining stability condition in impedance spectroscopy measurements of batteries. <b>2023</b> , 58, 106267	O
122	Rechargeable batteries: Technological advancement, challenges, current and emerging applications. <b>2023</b> , 266, 126408	1
121	Fire Hazard of Electric Vehicles in Enclosed Structures. 2022,	O
120	Improved performance of supercapacitor and zinc-ion battery based on 3D architectured porous manganese oxide-based nanosheets as binder-free electrodes.	O
119	Reducing the Capacity Loss of Lithium-Ion Batteries with Machine Learning in Real-Time Study Case. <b>2022</b> , 10, 1114	O
118	Space Battery Safety and Reliability. <b>2022</b> , 189-223	O
117	A Review of Lithium-Ion Battery Failure Hazards: Test Standards, Accident Analysis, and Safety Suggestions. <b>2022</b> , 8, 248	3
116	Simulation-Assisted Modularized Material Design Protocol Enables MoS2 to Realize Superior Zinc-Ion Storage. <b>2022</b> , 5, 15452-15462	O
115	Cathode materials for single-phase solid-solid conversion Li-S batteries. <b>2022</b> ,	0
114	Hierarchical carbon nanosheet embedded MnOx cathode for high-performance aqueous zinc ion batteries.	O
113	Annealing-Free Thioantimonate Argyrodites with High Li-Ion Conductivity and Low Elastic Modulus. 2211185	O
112	Highly Dispersible Functionalized Carbon Nanotubes (CNTs) as Conductive Material by Facile Dry Process Applicable to High-Power Cathode for Lithium-ion Batteries.	O
111	Electrochemical and spectroscopic studies on carbon-coated and iodine-doped LiFeBO 3 as a cathode material for lithium-ion batteries.	О
110	Automated Identification of Valid Model Networks Using Model-Based Systems Engineering. <b>2022</b> , 10, 250	O
109	Towards high power density aqueous redox flow batteries. 2022,	1
108	All-Solid-State Garnet-Based Lithium Batteries at WorkIh Operando TEM Investigations of Delithiation/Lithiation Process and Capacity Degradation Mechanism. 2205012	1
107	Optimizing Anion Storage Performances of Graphite/Non-graphitic Carbon Composites as Cathodes for Dual-Ion Batteries. <b>2022</b> , 141754	0
106	Data-driven short circuit resistance estimation in battery safety issues. <b>2023</b> ,	O

105	An Overview of Challenges and Strategies for Stabilizing Zinc Anodes in Aqueous Rechargeable Zn-Ion Batteries. <b>2023</b> , 9, 41	О
104	Overdischarge-induced evolution of Cu dendrites and degradation of mechanical properties in lithium-ion batteries. <b>2023</b> ,	Ο
103	A Facile Candle-Soot Nanoparticle Decoration Enables Dendrite-Free Zn Anodes for Long-Cycling Aqueous Batteries.	0
102	Cueing roles of new energy vehicle manufacturers lechnical capability and reputation in influencing purchase intention in China. 10,	Ο
101	OThree-in-one fire-retardant poly(phosphate)-based fast ion-conductor for all-solid-state lithium batteries. <b>2023</b> ,	О
100	A Review of Image-Based Simulation Applications in High-Value Manufacturing.	O
99	Extreme Fast Charging Capability in Graphite Anode via a Lithium Borate Type Biobased Polymer as Aqueous Polyelectrolyte Binder. 413-420	O
98	NASICON-Type Li1+xAlxZryTi2ᢂᠨ(PO4)3 Solid Electrolytes: Effect of Al, Zr Co-Doping and Synthesis Method. <b>2023</b> , 9, 59	1
97	Durable semi-crystalline interphase engineering to stabilize high voltage Ni-rich cathode in dilute ether electrolyte. <b>2023</b> ,	1
96	Process Development for Selective Recovery of Lithium from Black Mass of Spent LiFePO4 Batteries. <b>2023</b> , 601-605	O
95	Passivating Lithiated Graphite via Targeted Repair of SEI to Inhibit Exothermic Reactions in EarlyBtage of Thermal Runaway.	О
94	Unraveling high-performance oxygen-deficient amorphous manganese oxide as the cathode for advanced zinc ion batteries.	Ο
93	Passivating Lithiated Graphite via Targeted Repair of SEI to Inhibit Exothermic Reactions in EarlyBtage of Thermal Runaway.	Ο
92	A review of thermal management methods for electric vehicle batteries based on heat pipes and PCM. <b>2023</b> , 45,	Ο
91	Investigation on step overcharge to self-heating behavior and mechanism analysis of lithium ion batteries. <b>2023</b> ,	Ο
90	Recent progress in the thermal management of lithium-ion batteries. <b>2023</b> , 389, 136024	Ο
89	Coating lithium titanate anodes with a mixed ionic-electronic conductor for high-rate lithium-ion batteries. <b>2023</b> , 559, 232657	0
88	An integrated methodology for dynamic risk prediction of thermal runaway in lithium-ion batteries. <b>2023</b> , 171, 385-395	Ο

87	Meta-analysis of heat release and smoke gas emission during thermal runaway of lithium-ion batteries. <b>2023</b> , 60, 106579	0
86	Insights on rational design and energy storage mechanism of Mn-based cathode materials towards high performance aqueous zinc-ion batteries. <b>2023</b> , 479, 215009	O
85	Facile Synthesis of Nb-Doped CoTiO3 Hexagonal Microprisms as Promising Anode Materials for Lithium-Ion Batteries. <b>2023</b> , 11, 10	О
84	Silicon-based composite anodes for all-solid-state lithium-ion batteries conceived by a mixture design approach.	O
83	Particle Contamination in Commercial Lithium-Ion Cells <b>R</b> isk Assessment with Focus on Internal Short Circuits and Replication by Currently Discussed Trigger Methods. <b>2023</b> , 9, 9	О
82	Conductive coating, cation-intercalation, and oxygen vacancies co-modified vanadium oxides as high-rate and stable cathodes for aqueous zinc-ion batteries.	O
81	Thermal Management Techniques for Lithium-Ion Batteries Based on Phase Change Materials: A Systematic Review and Prospective Recommendations. <b>2023</b> , 16, 876	0
80	An Efficient Method for Heat Recovery Process and?emperature?ptimization. 2023, 75, 1017-1031	O
79	Optimization of tannin-derived hard carbon spheres for high-performance sodium-ion batteries.	О
78	Machine Learning for Forecasting and Predicting Failures in Lithium-Ion Batteries. 2023, 537-545	O
77	In-situ constructed SnO2 gradient buffer layer as a tight and robust interphase toward Li metal anodes in LATP solid state batteries. <b>2023</b> ,	О
76	Graphene-based nanocomposites as electrode materials for Zn-air batteries. <b>2023</b> , 395-412	O
75	Assessment of the calendar aging of lithium-ion batteries for a long-termBpace missions. 11,	O
74	Safety Issues of Layered Nickel-Based Cathode Materials for Lithium-Ion Batteries: Origin, Strategies and Prospects. <b>2023</b> , 9, 156	O
73	State of charge estimation for lithium-ion battery based on whale optimization algorithm and multi-kernel relevance vector machine. <b>2023</b> , 158, 104110	0
72	Electric Hybrid Powertrain for Armored Vehicles. <b>2023</b> , 16, 2605	O
71	Safety perceptions of solid-state lithium metal batteries. <b>2023</b> , 16, 100239	0
7º	A review on the applications of micro-/mini-channels for battery thermal management.	O

69	Synergistic effect of inorganic Mg(OH)2 and organic triphenyl phosphate based coating layers on flame-retardant separator for high-voltage Li  LiNi0.8Co0.1Mn0.1O2 cell. <b>2023</b> , 393, 116184	Ο
68	Gaseous reduction of NMC-type cathode materials using hydrogen for metal recovery. <b>2023</b> , 172, 523-534	О
67	Transition metal chalcogenides carbon-based as bifunctional cathode electrocatalysts for rechargeable zinc-air battery: An updated review. <b>2023</b> , 315, 102891	0
66	Thermal performance of a hybrid thermal management system based on the half helical coil coupled with air jet cooling for cylindrical Lithium-ion battery. <b>2023</b> , 225, 120231	O
65	Al2O3/ZnO composite-based sensors for battery safety applications: An experimental and theoretical investigation. <b>2023</b> , 109, 108301	0
64	Ionic liquid electrolytes for sodium-ion batteries to control thermal runaway. <b>2023</b> , 81, 321-338	O
63	Life cycle climate performance evaluation of electric vehicle thermal management system under Chinese climate and driving condition. <b>2023</b> , 228, 120460	0
62	Safety in lithium-ion battery circularity activities: A framework and evaluation methodology. <b>2023</b> , 193, 106962	Ο
61	Dual ions pre-intercalated hydrate vanadium oxide as cathode drives high-performance aqueous zinc ions storage. <b>2023</b> , 947, 169476	0
60	A thin Si nanowire network anode for high volumetric capacity and long-life lithium-ion batteries. <b>2023</b> , 81, 20-27	О
59	Thermal behaviour and thermal runaway propagation in lithium-ion battery systems 🖪 critical review. <b>2023</b> , 62, 106894	1
58	Li-ion battery charge transfer stability studies with direct current impedance spectroscopy. <b>2023</b> , 9, 34-41	Ο
57	Fundamentals, recent developments and prospects of lithium and non-lithium electrochemical rechargeable battery systems. <b>2023</b> , 81, 221-259	0
56	Facile preparation of Fe3O4/ZnFe2O4/ZnS/C composite from the leaching liquor of jarosite residue as a high-performance anode material for Li-ion batteries. <b>2023</b> , 952, 169993	O
55	Battery thermal runaway propagation time delay strategy using phase change material integrated with pyro block lining: Dual functionality battery thermal design. <b>2023</b> , 65, 107253	0
54	Thermal analysis of phase change material encapsulated li-ion battery pack using multi-scale multi-dimensional framework. <b>2023</b> , 65, 107290	O
53	Fuzzy logic approach for failure analysis of Li-ion battery pack in electric vehicles. <b>2023</b> , 149, 107233	0
52	Experimental Investigation on Reversible Swelling Mechanisms of Lithium-Ion Batteries under a Varying Preload Force. <b>2023</b> , 9, 218	O

51	A self-healable silk fibroin-based hydrogel electrolyte for silver-zinc batteries with high stability. <b>2023</b> , 938, 117466	O
50	Lithium Batteries and the Solid Electrolyte Interphase (SEI)Progress and Outlook. 2023, 13, 2203307	O
49	Battery thermal management: A structure optimization using Runge Kutta optimizer for improving system cooling performance. <b>2022</b> ,	O
48	How Green are Redox Flow Batteries?. <b>2023</b> , 16,	O
47	State of the art of lithium-ion battery material potentials: An analytical evaluations, issues and future research directions. <b>2023</b> , 394, 136246	O
46	Comparative Study on ChargeDischarge Behavior of Graphite Positive Electrode in FSA- and FTA-Based Ionic Liquid Electrolytes with Different Alkali Metal Cations. <b>2023</b> , 170, 020526	O
45	Composite-fabric-based structure-integrated energy storage system. <b>2023</b> , 310, 116757	1
44	Investigating battery-supercapacitor material hybrid configurations in energy storage device cycling at 0.1 to 10C rate. <b>2023</b> , 561, 232762	Ο
43	Understanding the Low-Voltage Behavior of Stoichiometric Over Lithiated Spinel Li1+xNi0.5Mn1.5O4: An Electrochemical Investigation. <b>2023</b> , 170, 020513	1
42	Electrochemical Cycling Behaviour and Shape Changes of Zn Electrodes in Mildly Acidic Aqueous Electrolytes Containing Quaternary Ammonium Salts.	O
41	A Review of Optimization for System Reliability of Microgrid. 2023, 11, 822	1
40	Cellulose acetate-promoted polymer-in-salt electrolytes for solid-state lithium batteries.	O
39	Doped olivine LiMPO4 (M = Mn/Ni) derivatives as potential cathode materials for Lithium-ion batteries: a mini review. <b>2023</b> , 29, 895-916	0
38	Recent advancements in lignocellulose biomass-based carbon fiber: Synthesis, properties, and applications. <b>2023</b> , 9, e13614	O
37	Nanometer-thin ZrO2 Coating for NiO on MWCNTs as Anode for Improved Performance of Sodium-Ion Batteries. <b>2023</b> , 6, 2507-2516	0
36	Modeling Electric Vehicle Battery Module using Computational Homogenization Approach. <b>2023</b> , 2023, 1-19	O
35	Investigation of the Properties of Anode Electrodes for Lithiumlon Batteries Manufactured Using Cu, and Si-Coated Carbon Nanowall Materials. <b>2023</b> , 16, 1935	1
34	Effect of Zr4+ on Lithium-Ion Conductivity of Garnet-Type Li5+xLa3(Nb2⊠Zrx)O12 Solid Electrolytes. <b>2023</b> , 9, 137	O

33	The Integration of Biopolymer-Based Materials for Energy Storage Applications: A Review. <b>2023</b> , 24, 3975	О
32	Progressive Damage Analysis for Spherical Electrode Particles with Different Protective Structures for a Lithium-Ion Battery. <b>2023</b> , 8, 7492-7506	O
31	Experimental investigation on thermal runaway suspension with battery health retention. <b>2023</b> , 225, 120239	0
30	A Safer High-Energy Lithium-lon Capacitor Using Fast-Charging and Stable 🗓 Li 3 V 2 O 5 Anode. <b>2023</b> , 7,	O
29	Iron-Vanadium Incorporated Ferrocyanides as Potential Cathode Materials for Application in Sodium-Ion Batteries. <b>2023</b> , 14, 521	0
28	Design of lithium-ion battery packs for two-wheeled electric vehicles.	O
27	Lithium-Ion Battery Management System for Electric Vehicles: Constraints, Challenges, and Recommendations. <b>2023</b> , 9, 152	O
26	Feasible approaches for anode-free lithium-metal batteries as next generation energy storage systems. <b>2023</b> , 57, 471-496	O
25	Neutron diffraction for revealing the structures and ionic transport mechanisms of antiperovskite solid electrolytes. <b>2023</b> , 100048	O
24	Development of All-Solid-State Li-Ion Batteries: From Key Technical Areas to Commercial Use. <b>2023</b> , 9, 157	O
23	A Pulse Impedance Technique for Fast State of Health Estimation of EV Lithium-Ion Batteries. 2023, 220-233	O
22	A Study on Capacity and State of Charge Estimation of VRFB Systems Using Cumulated Charge and Electrolyte Volume under Rebalancing Conditions. <b>2023</b> , 16, 2478	O
21	In-Situ Formed Phosphorus Modified Gel Polymer Electrolyte with Good Flame Retardancy and Cycling Stability for Rechargeable Lithium Batteries. <b>2023</b> , 11, 4498-4508	О
20	Lithium-ion battery equalization circuit and control strategy for photovoltaic energy storage applications. <b>2023</b> , 18, 341-347	O
19	Machine Learning Methods for Temperature Prediction of Autonomous Underwater Vehicles Battery Pack. <b>2023</b> , 3204-3215	О
18	Computational and Experimental Analysis of a Triode Microfuse with a WO3 Heater. <b>2023</b> , 2023, 1-20	O
17	Abuse Response of Batteries Subjected to Mechanical Impact. <b>2023</b> , 199-242	О
16	Enhanced charge storage capacity and high rate capabilities of Ni2Co-layered double hydroxides/expanded-graphite composites as anodes for Li-ion batteries. <b>2023</b> , 11, 7142-7151	O

15	Recent advances in two-dimensional MXenes for zinc-ion batteries.	Ο
14	Metal-Organic Framework-Based Materials in Aqueous Zinc-Ion Batteries. <b>2023</b> , 24, 6041	O
13	Identification of Challenges for Second-Life Battery Systems Literature Review. 2023, 14, 80	O
12	Recycling Procedures for Energy Storage Devices in the Scope of the Electric Vehicle Implementation. <b>2023</b> , 335-374	O
11	Pseudocapacitive behavior of mesoporous tungsten oxide in aqueous Zn2+ electrolyte.	O
10	Neutron and muon characterisation techniques for battery materials.	O
9	Mathematical Modeling of the Evaporation of a Water Drop from a Heated Surface. <b>2023</b> , 39, 5041-5055	O
8	Fault Prediction Method Based on Improved Bidirectional Long Short-Term Memory Combined with Sample Entropy for Battery. <b>2023</b> ,	О
7	Sn-Substituted Argyrodite Li6PS5Cl Solid Electrolyte for Improving Interfacial and Atmospheric Stability. <b>2023</b> , 16, 2751	О
6	Combustion, Chemistry, and Carbon Neutrality.	O
5	Dual-Ion Co-intercalation Mechanism on a Na2V6O16BH2O Cathode with a Commercial-Level Mass Loading for Aqueous Zinc-Ion Batteries with High Areal Capacity. <b>2023</b> , 15, 18808-18818	О
4	Noncombustible 7 pm-Thick Solid Polymer Electrolyte for Highly Energy Density Solid State Lithium Batteries. <b>2023</b> , 108448	O
3	Investigation of performance and technical assessments of hybrid source electric vehicles under different locations and driving conditions. 1-20	О
2	Modulating Entropic Driving Forces to Promote High Lithium Mobility in Solid Organic Electrolytes.	O
1	Recrystallization effect on mechanical parameters and increasing of Ag+ ionic conductivity in Ag7(Si1-xGex)S5I ceramic materials. <b>2023</b> , 140, 107203	О