

Looking Deeper into the Galaxy (Note 7)

Batteries

4, 3

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Thermal Mapping of a Lithium Polymer Batteries Pack with FBCs Network. Batteries, 2018, 4, 67.	2.1	27
2	Materials for lithium-ion battery safety. Science Advances, 2018, 4, eaas9820.	4.7	958
3	Combined experimental and modeling approaches of the thermal runaway of fresh and aged lithium-ion batteries. Journal of Power Sources, 2018, 399, 264-273.	4.0	131
4	Flexible, Heat-Resistant, and Flame-Retardant Glass Fiber Nonwoven/Glass Platelet Composite Separator for Lithium-Ion Batteries. Energies, 2018, 11, 999.	1.6	17
5	Characterization of behaviour and hazards of fire and deflagration for high-energy Li-ion cells by over-heating. Journal of Power Sources, 2018, 398, 55-66.	4.0	82
6	Batteries Safety: Recent Progress and Current Challenges. Frontiers in Energy Research, 2019, 7, .	1.2	93
7	Thermal and chemical characterization of the solid-electrolyte interphase in Li-ion batteries using a novel separator sampling method. Journal of Power Sources, 2019, 440, 227083.	4.0	26
8	Prolonged Cycle Life for Li ₄ Ti ₅ O ₁₂ /[Li ₃ V ₂ Carbon Nanotubes] Full Cell Configuration via Electrochemical Preconditioning. Electrochemistry, 2019, 87, 148-155.	0.6	8
9	Managing transport properties in composite electrodes/electrolytes for all-solid-state lithium-based batteries. Molecular Systems Design and Engineering, 2019, 4, 850-871.	1.7	38
10	Post-Mortem Analysis of Inhomogeneous Induced Pressure on Commercial Lithium-Ion Pouch Cells and Their Effects. Sustainability, 2019, 11, 6738.	1.6	28
11	Advancing knowledge of electrochemically generated lithium microstructure and performance decay of lithium ion battery by synchrotron X-ray tomography. Materials Today, 2019, 27, 21-32.	8.3	47
12	The Effect of Battery Separator Properties on Thermal Ramp, Overcharge and Short Circuiting of Rechargeable Li-Ion Batteries. Journal of the Electrochemical Society, 2019, 166, A125-A131.	1.3	27
13	Mechanical methods for state determination of Lithium-Ion secondary batteries: A review. Journal of Energy Storage, 2020, 32, 101859.	3.9	54
14	Determining the Limits and Effects of High-Rate Cycling on Lithium Iron Phosphate Cylindrical Cells. Batteries, 2020, 6, 57.	2.1	5
15	<sc>Conductivityâ€“modulusâ€“<i>T</i>_g</sc> relationships in solventâ€“free, single lithium ion conducting network electrolytes. Journal of Polymer Science, 2020, 58, 2376-2388.	2.0	11
16	Thermal runaway and fire behaviors of lithium iron phosphate battery induced by over heating. Journal of Energy Storage, 2020, 31, 101714.	3.9	46
17	Reliability of Cylindrical Li-ion Battery Safety Vents. IEEE Access, 2020, 8, 101859-101866.	2.6	17
18	Low-Temperature Lithium Plating/Corrosion Hazard in Lithium-Ion Batteries: Electrode Rippling, Variable States of Charge, and Thermal and Nonthermal Runaway. ACS Applied Energy Materials, 2020, 3, 3653-3664.	2.5	37

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19	The limited influence of transference number on the performance of nanoscale batteries. <i>Journal of Chemical Physics</i> , 2020, 152, 074702.	1.2	6
20	High-Precision Monitoring of Volume Change of Commercial Lithium-Ion Batteries by Using Strain Gauges. <i>Sustainability</i> , 2020, 12, 557.	1.6	66
21	Designing Aqueous Organic Electrolytes for Zinc-Air Batteries: Method, Simulation, and Validation. <i>Advanced Energy Materials</i> , 2020, 10, 1903470.	10.2	45
22	Study of the Role of LiNi _{1/3} Mn _{1/3} Co _{1/3} O ₂ /Graphite Li-Ion Pouch Cells Confinement, Electrolyte Composition and Separator Coating on Thermal Runaway and Off-Gas Toxicity. <i>Journal of the Electrochemical Society</i> , 2020, 167, 090513.	1.3	11
23	Understanding Li-Ion Cell Internal Short Circuit and Thermal Runaway through Small, Slow and In Situ Sensing Nail Penetration. <i>Journal of the Electrochemical Society</i> , 2020, 167, 090526.	1.3	28
24	IBE in engineering science - the case of malfunction explanation. <i>European Journal for Philosophy of Science</i> , 2021, 11, 1.	0.6	2
25	Solid Electrolytes for High-Temperature Stable Batteries and Supercapacitors. <i>Advanced Energy Materials</i> , 2021, 11, 2002869.	10.2	64
26	Robust, flexible, freestanding and high surface area activated carbon and multi-walled carbon nanotubes composite material with outstanding electrode properties for aqueous-based supercapacitors. <i>Materials Advances</i> , 2021, 2, 4264-4276.	2.6	18
27	A Comprehensive Review of Available Battery Datasets, RUL Prediction Approaches, and Advanced Battery Management. <i>IEEE Access</i> , 2021, 9, 86166-86193.	2.6	95
28	Binder-Free, Thin-Film Ceramic-Coated Separators for Improved Safety of Lithium-Ion Batteries. <i>ACS Omega</i> , 2021, 6, 4204-4211.	1.6	26
29	A review of safety considerations for batteries in aircraft with electric propulsion. <i>MRS Bulletin</i> , 2021, 46, 435-442.	1.7	46
30	An overview of safety for laboratory testing of lithium-ion batteries. <i>Energy Reports</i> , 2021, 7, 2-8.	2.5	7
31	Uncovering LiH Triggered Thermal Runaway Mechanism of a High-Energy LiNi _{0.5} Co _{0.2} Mn _{0.3} O ₂ /Graphite Pouch Cell. <i>Advanced Science</i> , 2021, 8, e2100676.	5.6	48
32	Inhomogeneities and Cell-to-Cell Variations in Lithium-Ion Batteries, a Review. <i>Energies</i> , 2021, 14, 3276.	1.6	50
33	Lithium-ion battery explosion aerosols: Morphology and elemental composition. <i>Aerosol Science and Technology</i> , 2021, 55, 1183-1201.	1.5	8
35	Thermal-Responsive and Fire-Resistant Materials for High-Safety Lithium-Ion Batteries. <i>Small</i> , 2021, 17, e2103679.	5.2	35
37	Application of compact laser-driven accelerator X-ray sources for industrial imaging. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2020, 983, 164369.	0.7	18
38	Identifying Defects in Li-Ion Cells Using Ultrasound Acoustic Measurements. <i>Journal of the Electrochemical Society</i> , 2020, 167, 120530.	1.3	37

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39	Stabilization of Solid Solution Behavior for Monoclinic $\text{Li}_3\text{V}_2(\text{PO}_4)_3$ via Al^{3+} Doping. <i>Electrochemistry</i> , 2019, 87, 341-347.	0.6	0
40	Requirement Engineering in the Age of System and Product Complexity – A Literature Review. , 2021, , .		1
41	A Glass Platelet Coating on Battery Electrodes and Its Use as a Separator for Lithium-Ion Batteries. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2020, 17, .	1.1	1
42	2D argyrodite LPSCI solid electrolyte for all-solid-state Li-ion battery using reduced graphene oxide template. <i>Materials Today Energy</i> , 2022, 23, 100913.	2.5	4
43	Simulation of spatial strain inhomogeneities in lithium-ion-cells due to electrode dilation dependent on internal and external cell structures. <i>Journal of Energy Storage</i> , 2022, 49, 104143.	3.9	3
44	Statistical and computational analysis for state-of-health and heat generation behavior of long-term cycled $\text{LiNi}_0.8\text{Co}_0.15\text{Al}_0.05\text{O}_2/\text{Graphite}$ cylindrical lithium-ion cells for energy storage applications. <i>Journal of Power Sources</i> , 2022, 529, 231240.	4.0	1
45	Quantitative characterisation of the layered structure within lithium-ion batteries using ultrasonic resonance. <i>Journal of Energy Storage</i> , 2022, 50, 104585.	3.9	9
46	Bridging nano- and microscale X-ray tomography for battery research by leveraging artificial intelligence. <i>Nature Nanotechnology</i> , 2022, 17, 446-459.	15.6	66
47	Composite Cathodes for Solid-State Lithium Batteries: “Catholytes” the Underrated Giants. <i>Advanced Energy and Sustainability Research</i> , 2022, 3, .	2.8	16
48	Rapid 3D nondestructive imaging technology for batteries: Photoacoustic microscopy. <i>Journal of Materials Research</i> , 2022, 37, 3283-3296.	1.2	1
49	Electrolytes with flame retardant pentafluoro(phenoxy)cyclotriphosphazene for nickel-rich layered oxide/graphite cells. <i>Electrochimica Acta</i> , 2022, 427, 140867.	2.6	2
50	Research progress on high-temperature resistant polymer separators for lithium-ion batteries. <i>Energy Storage Materials</i> , 2022, 51, 638-659.	9.5	28
51	The effect of the porous media on thermal management of lithium-ion battery pack; a comparative and numerical study. <i>Thermal Science and Engineering Progress</i> , 2022, 34, 101427.	1.3	3
52	X-Ray Computed Tomography for Failure Mechanism Characterisation within Layered Pouch Cells: Part I. <i>Johnson Matthey Technology Review</i> , 2023, 67, 36-46.	0.5	3
53	Electrochemical Change Induced by Spherical Indentation in Lithium-Ion Batteries. <i>Batteries</i> , 2022, 8, 268.	2.1	0
54	Review of the Li-Ion Battery, Thermal Management, and AI-Based Battery Management System for EV Application. <i>Energies</i> , 2023, 16, 185.	1.6	19
55	Experimental determination of metals generated during the thermal failure of lithium ion batteries. <i>Energy Advances</i> , 2023, 2, 170-179.	1.4	5
56	Electrothermal Characterization and Modeling of Lithium-Ion Pouch Cells in Thermal Runaway. <i>Fire Technology</i> , 2023, 59, 623-661.	1.5	1

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57	A review on battery technology for space application. Journal of Energy Storage, 2023, 61, 106792.	3.9	10
58	State of charge effects on active material elemental composition changes between pre-thermal-runaway and post-failure states for 8-1-1 nickel-manganese-cobalt 18650 cells. Journal of Energy Storage, 2023, 63, 106974.	3.9	2
59	Shape Evolution of Indium Sulfide Heterostructures via Carbon Nanotube Scrambling: Towards Reliable Sustainability and Mitigating Leakage Current in Supercapacitors. Applied Sciences (Switzerland), 2023, 13, 2958.	1.3	1
60	Investigating the Thermal Runaway Behaviour of Fresh and Aged Large Prismatic Lithium-Ion Cells in Overtemperature Experiments. Batteries, 2023, 9, 159.	2.1	1
61	Modeling and Evaluation of a Data Center Sovereignty with Software Failures. , 2022, , .		2
72	Availability modeling and evaluation of switches and data centers. , 2023, , .		0
77	Lithium batteries - Secondary systems â€“ Lithium battery safety Cell levelâ€”Safety related material and design engineering. , 2024, , .		0