

CITATION REPORT

List of articles citing

A review of power battery thermal energy management

DOI: 10.1016/j.rser.2011.07.096

Renewable and Sustainable Energy Reviews, 2011, 15, 4554-45

Source: <https://exaly.com/paper-pdf/51080874/citation-report.pdf>

Version: 2024-04-03

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
720	Integrated energy and thermal management for hybrid electric heavy duty trucks. 2012 ,		12
719	Molecular dynamics simulations of melting behavior of alkane as phase change materials slurry. 2012 , 64, 152-156		22
718	Self diffusion of the nano-encapsulated phase change materials: A molecular dynamics study. 2012 , 100, 303-308		43
717	Fundamental Aspects of Mechanical Dehydrogenation of Li- Based Complex Hydride Nanocomposites and Their Self-Discharge at Low Temperatures. 2012 , 29, 644-653		4
716	Dissipative particle dynamics investigation of microencapsulated thermal energy storage phase change materials. 2012 , 44, 805-812		24
715	Experimental evaluation on natural convection heat transfer of microencapsulated phase change materials slurry in a rectangular heat storage tank. 2012 , 59, 33-39		46
714	Thermal characterization of a high-power lithium-ion battery: Potentiometric and calorimetric measurement of entropy changes. 2013 , 61, 432-439		105
713	The effect of non-covalent functionalization on the thermal conductance of graphene/organic interfaces. 2013 , 24, 165702		75
712	Sustainable urban rail systems: Strategies and technologies for optimal management of regenerative braking energy. 2013 , 75, 374-388		249
711	Self diffusion and heat capacity of n-alkanes based phase change materials: A molecular dynamics study. 2013 , 64, 581-589		37
710	Boundary control synthesis for a lithium-ion battery thermal regulation problem. 2013 , 59, 3782-3796		6
709	High Energy Density Metal-Air Batteries: A Review. 2013 , 160, A1759-A1771		453
708	Lithium-ion battery heat generation investigation based on calorimetric entropy measurements. 2013 ,		5
707	Temperature Characteristics Improvement of Power Battery Module for Electric Vehicles. 2013 ,		1
706	Study on the improvement in continuously variable transmission efficiency with a thermal management system. 2013 , 61, 11-19		7
705	A design of air flow configuration for cooling lithium ion battery in hybrid electric vehicles. 2013 , 239, 30-36		258
704	Development of an optimal charging algorithm of a Ni-MH battery for stationary fuel cell/battery hybrid system application. 2013 , 38, 9008-9015		5

703	Control strategies for high-power electric vehicles powered by hydrogen fuel cell, battery and supercapacitor. 2013 , 40, 4791-4804	129
702	Experimental investigation on thermal management of electric vehicle battery with heat pipe. 2013 , 65, 92-97	271
701	Arrhenius Equation-Based Cell-Health Assessment: Application to Thermal Energy Management Design of a HEV NiMH Battery Pack. 2013 , 6, 2709-2725	31
700	Progress in Hydrogen Storage in Complex Hydrides. 2013 , 293-332	7
699	. 2013 ,	1
698	The estimation of radial temperature distribution in cylindrical battery cells under unknown cooling conditions. 2013 ,	
697	Adaptive temperature monitoring for battery thermal management. 2013 ,	6
696	Performance Improvement of a Two Speed EV through Combined Gear Ratio and Shift Schedule Optimization. 2013 ,	18
695	Cost-Effective Energy Management for Hybrid Electric Heavy-Duty Truck Including Battery Aging. 2013 ,	3
694	Transport. 599-670	3
693	Molecular dynamics simulation of the molar volumes and solubility parameters of straight alkanes. 2014 , 28, 1450240	3
692	A study on structure-performance relationship of overcharged 18650-size Li4Ti5O12/LiMn2O4 battery. 2014 , 118, 1413-1418	6
691	Thermal Management System Design and Simulation of Battery Pack for Electric Vehicles. 2014 , 494-495, 100-103	2
690	Cellulose in Printed Electronics. 2014 , 237-252	1
689	Thermal Characteristic Analysis of Rectangular and Large-Capacity Lithium-Ion Power Batteries. 2014 , 1044-1045, 448-456	
688	Effect of the inclination angle on the transient performance of a phase change material-based heat sink under pulsed heat loads. 2014 , 15, 789-797	16
687	Thermal Management Modeling for Avoidance of Thermal Runaway Conditions in Lithium-Ion Batteries. 2014 ,	3
686	Hybrid electric vehicles and their challenges: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 29, 135-150	16.2 364

685	Measurement of anisotropic thermophysical properties of cylindrical Li-ion cells. 2014 , 252, 298-304	131
684	Development and characteristics of a membraneless microfluidic fuel cell array. 2014 , 135, 467-477	50
683	Experimental study of the heat generations of Li/SOCl ₂ and Li/SO ₂ batteries using a phase-change measurement method. 2014 , 116, 1011-1017	6
682	Heat dissipation structure research for rectangle LiFePO ₄ power battery. 2014 , 50, 887-893	11
681	Numerical model of the passive thermal management system for high-power lithium ion battery by using porous metal foam saturated with phase change material. 2014 , 39, 3904-3913	137
680	Review on thermal management systems using phase change materials for electronic components, Li-ion batteries and photovoltaic modules. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 31, 427-438 ^{16.2}	296
679	A review of phase change materials for vehicle component thermal buffering. 2014 , 113, 1525-1561	244
678	On-chip phase change heat sinks designed for computational sprinting. 2014 ,	16
677	The Estimation of Temperature Distribution in Cylindrical Battery Cells Under Unknown Cooling Conditions. 2014 , 22, 2277-2286	75
676	Enhanced thermal conductivity of phase change materials with ultrathin-graphite foams for thermal energy storage. 2014 , 7, 1185-1192	410
675	Thermal investigation of lithium-ion battery module with different cell arrangement structures and forced air-cooling strategies. 2014 , 134, 229-238	321
674	Dissipative particle dynamics and experimental study of alkane-based nanoencapsulated phase change material for thermal energy storage. 2014 , 4, 20797-20803	14
673	Novel thermal management system design methodology for power lithium-ion battery. 2014 , 272, 291-302	63
672	Review of underhood aerothermal management: Towards vehicle simplified models. 2014 , 73, 842-858	24
671	Experimental performances of a battery thermal management system using a phase change material. 2014 , 270, 349-358	99
670	Amorphous silica-coated graphite particles for thermally conductive and electrically insulating resins. 2014 , 78, 204-211	33
669	Thermal analysis and two-directional air flow thermal management for lithium-ion battery pack. 2014 , 270, 193-200	125
668	Optimal power management for a series hybrid electric vehicle cognizant of battery mechanical effects. 2014 ,	7

667	LiFePO ₄ Optimal Operation Temperature Range Analysis for EV/HEV. 2014 , 476-485	2
666	Experimental study of an OHP-cooled thermal management system for electric vehicle power battery. 2014 , 57, 20-26	80
665	Shortcut computation for the thermal management of a large air-cooled battery pack. 2014 , 66, 445-452	82
664	Dynamic electro-thermal modeling of all-vanadium redox flow battery with forced cooling strategies. 2014 , 135, 1-10	51
663	Investigation on a hydrogel based passive thermal management system for lithium ion batteries. 2014 , 68, 854-861	61
662	Comparison of comprehensive properties of Ni-MH (nickel-metal hydride) and Li-ion (lithium-ion) batteries in terms of energy efficiency. 2014 , 70, 618-625	60
661	A theoretical and computational study of lithium-ion battery thermal management for electric vehicles using heat pipes. 2014 , 257, 344-355	153
660	Review on the heat dissipation performance of battery pack with different structures and operation conditions. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 29, 301-315	16.2 49
659	Multi-objective optimal design of lithium-ion battery packs based on evolutionary algorithms. 2014 , 267, 288-299	48
658	On the competitiveness of electric driving in France: Impact of driving patterns. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 37, 348-359	16.2 20
657	Simulative method for determining the optimal operating conditions for a cooling plate for lithium-ion battery cell modules. 2014 , 267, 784-792	58
656	Modeling Temperature Development of Li-Ion Battery Packs Using Phase Change Materials (PCM) and Fluid Flow. 2014 ,	
655	Qualitative thermal characterization and cooling of lithium batteries for electric vehicles. 2014 , 501, 012035	2
654	Temperature response of a high power lithium-ion battery subjected to high current discharge. 2015 , 19, S2-156-S2-160	7
653	Electric, Hybrid, and Advanced Vehicles: Finding a Lane on the Road Ahead. 2015 , 1-21	
652	Fan-pad evaporative battery cooling for hybrid electric vehicle thermal management. 2015 ,	1
651	Sustainable Power Supply Solutions for Off-Grid Base Stations. 2015 , 8, 10904-10941	73
650	Battery Heating System for Electric Vehicles. 2015 ,	2

649	Theoretical Modelling Methods for Thermal Management of Batteries. 2015 , 8, 10153-10177	69
648	Improved rate ability of low cost sulfur cathodes by using ultrathin graphite sheets with self-wrapped function as cheap conductive agent. 2015 , 3, 8015-8021	16
647	High thermal conductivity phase change composite with percolating carbon fiber network. 2015 , 154, 678-685	112
646	. 2015 , 1-1	5
645	Smart cooling system of the double loop coolant structure with engine thermal management modeling. 2015 , 79, 124-131	30
644	Experimental investigation of battery thermal management system for electric vehicle based on paraffin/copper foam. 2015 , 88, 241-246	96
643	Experimental investigation on EV battery cooling and heating by heat pipes. 2015 , 88, 54-60	142
642	Paraffin and paraffin/aluminum foam composite phase change material heat storage experimental study based on thermal management of Li-ion battery. 2015 , 78, 428-436	207
641	Thermal management of a Li-ion battery using carbon fiber-PCM composites. 2015 , 82, 281-290	159
640	Thermal management of batteries for electric vehicles. 2015 , 327-358	8
639	Retention of mechanical performance of polymer matrix composites above the glass transition temperature by vascular cooling. 2015 , 78, 412-423	24
638	Numerical investigation of water cooling for a lithium-ion bipolar battery pack. 2015 , 94, 259-269	87
637	Development of efficient air-cooling strategies for lithium-ion battery module based on empirical heat source model. 2015 , 90, 521-529	132
636	Adaptive Kalman filtering based internal temperature estimation with an equivalent electrical network thermal model for hard-cased batteries. 2015 , 293, 351-365	54
635	Thermal performance of mini-channel liquid cooled cylinder based battery thermal management for cylindrical lithium-ion power battery. 2015 , 103, 157-165	222
634	Computational scheduling methods for integrating plug-in electric vehicles with power systems: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 51, 396-416	16.2 127
633	Thermal Management in Electrochemical Energy Storage Systems. 2015 , 1-10	4
632	A concise guide to sustainable PEMFCs: recent advances in improving both oxygen reduction catalysts and proton exchange membranes. 2015 , 44, 5836-60	225

631	Experimental validation of a 0-D numerical model for phase change thermal management systems in lithium-ion batteries. 2015 , 287, 211-219	35
630	Thermal management of cylindrical power battery module for extending the life of new energy electric vehicles. 2015 , 85, 33-43	149
629	A hybrid thermal management system for lithium ion batteries combining phase change materials with forced-air cooling. 2015 , 148, 403-409	351
628	Integrated Systems: Innovations and Applications. 2015 ,	2
627	Protection of Electronics from Environmental Temperature Spikes by Phase Change Materials. 2015 , 44, 4589-4594	5
626	A review of thermal performance improving methods of lithium ion battery: Electrode modification and thermal management system. 2015 , 299, 557-577	178
625	Experimental demonstration of active thermal control of a battery module consisting of multiple Li-ion cells. 2015 , 91, 630-639	40
624	The numerical investigation of nanofluid based cylinder battery thermal management using lattice Boltzmann method. 2015 , 91, 374-384	75
623	Size matters: Why cell size is vital for minimizing cost of air-cooling in battery packs. 2015 ,	2
622	Investigation of thermal energy losses in the powertrain of an electric city bus. 2015 ,	7
621	A control-oriented lithium-ion battery pack model for plug-in hybrid electric vehicle cycle-life studies and system design with consideration of health management. 2015 , 279, 791-808	73
620	Thermal conductivity of an organic phase change material/expanded graphite composite across the phase change temperature range and a novel thermal conductivity model. 2015 , 102, 202-208	180
619	Thermal management of batteries employing active temperature control and reciprocating cooling flow. 2015 , 83, 164-172	76
618	An investigation of lithium-ion battery thermal management using paraffin/porous-graphite-matrix composite. 2015 , 278, 50-68	103
617	Experiment and simulation of a LiFePO ₄ battery pack with a passive thermal management system using composite phase change material and graphite sheets. 2015 , 275, 742-749	145
616	Investigation of power battery thermal management by using mini-channel cold plate. 2015 , 89, 387-395	318
615	The development of new energy vehicles for a sustainable future: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 42, 298-305	16.2 137
614	Optimal economy-based battery degradation management dynamics for fuel-cell plug-in hybrid electric vehicles. 2015 , 274, 367-381	43

613	Thermal Management of Power Batteries for Electric Vehicles Using Phase Change Materials: A Review. 2016 ,	15
612	Assessing Electric Vehicles Battery Second Life Remanufacture and Management. 2016 , 6, 77-98	19
611	Characterization and modeling of the thermal mechanics of lithium-ion battery cells. 2016 , 178, 633-646	26
610	Review on use of phase change materials in battery thermal management for electric and hybrid electric vehicles. 2016 , 40, 1011-1031	128
609	Modeling efforts in the key areas of thermal management and safety of lithium ion battery cells: a mini review. 2016 , 11, 399-406	18
608	High thermal conductivity phase change composite with a metal-stabilized carbon-fiber network. 2016 , 179, 1-6	42
607	Three Dimensional Thermal Modeling of Li-Ion Battery Pack Based on Multiphysics and Calorimetric Measurement. 2016 ,	4
606	Investigation of current sharing and heat dissipation in parallel-connected lithium-ion battery packs. 2016 ,	2
605	Energy management system for smart house with multi-sources using PI-CA controller. 2016 ,	4
604	Chemical Strategies for Enhancing Activity and Charge Transfer in Ultrathin Pt Nanowires Immobilized onto Nanotube Supports for the Oxygen Reduction Reaction. 2016 , 8, 34280-34294	12
603	Measurement of Multiscale Thermal Transport Phenomena in Li-Ion Cells: A Review. 2016 , 13,	43
602	Hydrogen storage alloys/reduced graphite oxide: an efficient hybrid electrode with enhanced high-rate dischargeability. 2016 , 200, 59-65	26
601	Determination of the behavior and performance of commercial Li-Ion pouch cells by means of isothermal calorimeter. 2016 ,	4
600	Multiphysics based thermal modeling of a pouch lithium-ion battery cell for the development of pack level thermal management system. 2016 ,	4
599	Dynamic thermal characteristics of heat pipe via segmented thermal resistance model for electric vehicle battery cooling. 2016 , 321, 57-70	85
598	A coupled thermal and electrochemical study of lithium-ion battery cooled by paraffin/porous-graphite-matrix composite. 2016 , 315, 127-139	32
597	Experiment study of oscillating heat pipe and phase change materials coupled for thermal energy storage and thermal management. 2016 , 99, 252-260	55
596	An experimental study of thermal management system using copper mesh-enhanced composite phase change materials for power battery pack. 2016 , 113, 909-916	113

595	Experimental and modeling study of controller-based thermal management of battery modules under dynamic loads. 2016 , 103, 154-164	32
594	Numerical studies of lithium-ion battery thermal management systems using phase change materials and metal foams. 2016 , 102, 1159-1168	125
593	Thermal performance of lithium-ion battery thermal management system by using mini-channel cooling. 2016 , 126, 622-631	252
592	Experimental study of a cylindrical lithium ion battery thermal management using phase change material composites. 2016 , 8, 168-174	72
591	High temperature electrical energy storage: advances, challenges, and frontiers. 2016 , 45, 5848-5887	182
590	Design of Hydrogen Storage Alloys/Nanoporous Metals Hybrid Electrodes for Nickel-Metal Hydride Batteries. 2016 , 6, 27601	21
589	Experimental investigation of a passive thermal management system for high-powered lithium ion batteries using nickel foam-paraffin composite. 2016 , 115, 209-218	99
588	An alternating current heating method for lithium-ion batteries from subzero temperatures. 2016 , 40, 1869-1883	54
587	Chapter 7 Energy Security and Sustainability for Road Transport Sector: The Role of Hydrogen Fuel Cell Technology. 2016 , 149-204	1
586	Expanded graphite embedded with aluminum nanoparticles as superior thermal conductivity anodes for high-performance lithium-ion batteries. 2016 , 6, 33833	33
585	Experimental investigation of thermal characteristics of lithium ion battery using phase change materials combined with metallic foams and fins. 2016 , 40, 012045	1
584	Computational fluid dynamic and thermal analysis of Lithium-ion battery pack with air cooling. 2016 , 177, 783-792	234
583	A critical review of thermal management models and solutions of lithium-ion batteries for the development of pure electric vehicles. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 64, 106-128	16.2 413
582	Figure-of-merit for phase-change materials used in thermal management. 2016 , 101, 764-771	46
581	Active Cooling of a Microvascular Shape Memory Alloy-Polymer Matrix Composite Hybrid Material. 2016 , 18, 1145-1153	17
580	Thermo-electrochemical model for forced convection air cooling of a lithium-ion battery module. 2016 , 99, 672-682	60
579	Thermal Management of Large-Format Prismatic Lithium-Ion Battery in PHEV Application. 2016 , 163, A309-A317	31
578	Twelve Principles for Green Energy Storage in Grid Applications. 2016 , 50, 1046-55	55

577	Review of mechanical design and strategic placement technique of a robust battery pack for electric vehicles. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 60, 1319-1331	16.2	115
576	Performance enhancement of a Building-Integrated Concentrating Photovoltaic system using phase change material. 2016 , 149, 29-39		120
575	Thermal management analysis of a Li-ion battery cell using phase change material loaded with carbon fibers. 2016 , 96, 355-371		187
574	Unbalanced discharging and aging due to temperature differences among the cells in a lithium-ion battery pack with parallel combination. 2016 , 306, 733-741		136
573	Energy-Conscious Warm-Up of Li-Ion Cells From Subzero Temperatures. 2016 , 63, 2954-2964		30
572	. 2016 , 52, 369-377		27
571	Estimating the Power Capability of Li-ion Batteries Using Informationally Partitioned Estimators. 2016 , 24, 1643-1654		24
570	Thermal management for high power lithium-ion battery by minichannel aluminum tubes. 2016 , 101, 284-292		150
569	Thermal performance of phase change material/oscillating heat pipe-based battery thermal management system. 2016 , 102, 9-16		111
568	Understanding atomic scale phenomena within the surface layer of a long-term cycled 5 V spinel electrode. 2016 , 19, 297-306		17
567	A comprehensive review of lithium-ion batteries used in hybrid and electric vehicles at cold temperatures. 2016 , 164, 99-114		510
566	Investigation of the thermal performance of phase change material/mini-channel coupled battery thermal management system. 2016 , 164, 659-669		210
565	Comparison of different cooling methods for lithium ion battery cells. 2016 , 94, 846-854		289
564	Performance assessment and optimization of a heat pipe thermal management system for fast charging lithium ion battery packs. 2016 , 92, 893-903		83
563	Real-time estimation of battery internal temperature based on a simplified thermoelectric model. 2016 , 302, 146-154		64
562	Experimental investigation on thermal performance of phase change material coupled with closed-loop oscillating heat pipe (PCM/CLOHP) used in thermal management. 2016 , 93, 90-100		69
561	On using splitter plates and flow guide-vanes for battery module cooling. 2017 , 53, 1-10		13
560	Multidisciplinary Design Optimization of Air-based Battery Thermal Management System in Electric Vehicles. 2017 ,		

559	Investigation on the promotion of temperature uniformity for the designed battery pack with liquid flow in cooling process. 2017 , 116, 655-662	82
558	Analytical methods for determining the effects of lithium-ion cell size in aligned air-cooled battery packs. 2017 , 10, 39-47	12
557	Modeling and state-of-charge prediction of lithium-ion battery and ultracapacitor hybrids with a co-estimator. 2017 , 121, 739-750	115
556	Safety of Rechargeable Energy Storage Systems with a focus on Li-ion Technology. 2017 , 253-290	10
555	Constrained generalized predictive control of battery charging process based on a coupled thermoelectric model. 2017 , 347, 145-158	86
554	Thermal analysis and simulation of a Li-ion battery pack for a lightweight commercial EV. 2017 , 192, 159-177	57
553	Experimental investigation on the thermal performance of heat pipe-assisted phase change material based battery thermal management system. 2017 , 138, 486-492	199
552	Lattice Boltzmann modeling of melting of phase change materials in porous media with conducting fins. 2017 , 118, 315-327	19
551	Numerical modeling and experimental investigation of a prismatic battery subjected to water cooling. 2017 , 71, 626-637	48
550	Thermal design and simulation of mini-channel cold plate for water cooled large sized prismatic lithium-ion battery. 2017 , 122, 80-90	162
549	Exploring the efficacy of nanofluids for lithium-ion battery thermal management. 2017 , 112, 779-794	58
548	Review Article: Flow battery systems with solid electroactive materials. 2017 , 35, 040801	26
547	Electrochemical-electrical-thermal modeling of a pouch-type lithium ion battery: An application to optimize temperature distribution. 2017 , 11, 249-257	34
546	Thermal Management of Hybrid Energy Storage for Electromagnetic Launch. 2017 , 45, 1459-1464	0
545	Configuration optimization of battery pack in parallel air-cooled battery thermal management system using an optimization strategy. 2017 , 123, 177-186	69
544	Surrogate based multidisciplinary design optimization of lithium-ion battery thermal management system in electric vehicles. 2017 , 56, 1555-1570	36
543	Numerical Analyses on Aluminum Foams Cooling Plate for Lithium-ion Batteries. 2017 , 105, 4751-4756	6
542	Structure optimization of parallel air-cooled battery thermal management system. 2017 , 111, 943-952	87

541	Modular energy efficient and solid-state Battery Thermal Management System. 2017 ,	2
540	Thermal properties and thermal conductivity enhancement of composite phase change materials using myristyl alcohol/metal foam for solar thermal storage. 2017 , 170, 68-76	123
539	Thermal management of a Li-ion battery pack employing water evaporation. 2017 , 360, 166-171	33
538	A review of thermal management and safety for lithium ion batteries. 2017 ,	4
537	Experimental study of a passive thermal management system for three types of battery using copper foam saturated with phase change materials. 2017 , 7, 27441-27448	19
536	Optimization investigation on the liquid cooling heat dissipation structure for the lithium-ion battery package in electric vehicles. 2017 , 231, 1735-1750	12
535	Nanofluid-based cooling of cylindrical lithium-ion battery packs employing forced air flow. 2017 , 117, 44-58	50
534	Experimental investigation on the thermal behavior of cylindrical battery with composite paraffin and fin structure. 2017 , 109, 958-970	76
533	An advanced Lithium-ion battery optimal charging strategy based on a coupled thermoelectric model. 2017 , 225, 330-344	53
532	The lattice Boltzmann investigation of natural convection for nanofluid based battery thermal management. 2017 , 115, 659-669	37
531	Investigation of phase change material based battery thermal management at cold temperature using lattice Boltzmann method. 2017 , 133, 204-215	61
530	A review on battery thermal management in electric vehicle application. 2017 , 367, 90-105	243
529	The electric vehicle: a review. 2017 , 9, 49	19
528	Electrochemical-thermal Modeling to Evaluate Active Thermal Management of a Lithium-ion Battery Module. 2017 , 254, 59-71	38
527	Experimental investigations of an AC pulse heating method for vehicular high power lithium-ion batteries at subzero temperatures. 2017 , 367, 145-157	64
526	A thermal management system for rectangular LiFePO ₄ battery module using novel double copper mesh-enhanced phase change material plates. 2017 , 141, 613-623	54
525	Thermal optimization of composite PCM based large-format lithium-ion battery modules under extreme operating conditions. 2017 , 153, 22-33	67
524	Thermal issues about Li-ion batteries and recent progress in battery thermal management systems: A review. 2017 , 150, 304-330	433

523	Lattice Boltzmann investigation of the solid-liquid phase change process in a cavity with protruding heater. 2017 , 122, 292-301	5
522	Resilient Energy Storage under High-Temperature with In-Situ-Synthesized MnO@Graphene as Anode. 2017 , 9, 33896-33905	25
521	A review on lithium-ion power battery thermal management technologies and thermal safety. 2017 , 26, 391-412	114
520	Thermal management for energy storage system for smart grid. 2017 , 13, 313-324	15
519	Structural optimization of lithium-ion battery pack with forced air cooling system. 2017 , 126, 583-593	98
518	Numerical simulation of transport characteristics of Li-ion battery in different discharging modes. 2017 , 126, 70-80	8
517	Liquid cooling based on thermal silica plate for battery thermal management system. 2017 , 41, 2468-2479	96
516	Performance of Al-0.1In-0.1Ga-0.1Sn-3.0Pb as anode for Al-air battery in KOH solutions. 2017 , 81, 012005	2
515	Flexible, temperature-tolerant supercapacitor based on hybrid carbon film electrodes. 2017 , 40, 224-232	78
514	An Experimental Parametric Study of Air-Based Battery Thermal Management System for Electric Vehicles. 2017 ,	1
513	A unified modeling framework for lithium-ion batteries: An artificial neural network based thermal coupled equivalent circuit model approach. 2017 , 138, 118-132	55
512	Experimental Study on a Dual- parallel-evaporator Heat Pump System for Thermal Management of Electric Vehicles. 2017 , 105, 2390-2395	11
511	Optimization of a phase change material based internal cooling system for cylindrical Li-ion battery pack and a hybrid cooling design. 2017 , 135, 811-822	67
510	Enhanced Thermal Conductivity and Durability of a Paraffin Wax Nanocomposite Based on Carbon-Coated Aluminum Nanoparticles. 2017 , 121, 12603-12609	18
509	Prevent thermal runaway of lithium-ion batteries with minichannel cooling. 2017 , 110, 883-890	119
508	Optimization of the air-cooled supercapacitor module compartment for an electric bus. 2017 , 112, 1297-1304	13
507	Impact of Heating System on the Range of an Electric Vehicle. 2017 , 66, 4668-4677	29
506	Preventing thermal runaway propagation in lithium ion battery packs using a phase change composite material: An experimental study. 2017 , 340, 51-59	199

505	A novel lattice Boltzmann model for the solid-liquid phase change with the convection heat transfer in the porous media. 2017 , 104, 675-687	25
504	Enhancing radiative cooling performance using metal-dielectric-metal metamaterials. 2017 , 31, 5107-5112	3
503	Thermal management system design for batteries packs of electric vehicles: A survey. 2017 ,	3
502	Simulation of lithium-ion batteries from a electric vehicle perspective. 2017 ,	2
501	Analysis of a lithium-ion battery cooling system for electric vehicles using a phase-change material and heat pipes. 2017 , 12, JTST0011-JTST0011	22
500	Towards the implementation of refurbished ev lithium-ion batteries for smart grid energy storage. 2017 ,	2
499	Thermal studies on battery packs with different geometric configuration of 18650 cells. 2017 ,	0
498	Thermal model of battery for high capacity energy storage systems cell scale model and experimental validation. 2017 ,	1
497	Feasibility study of mist cooling for lithium-ion battery. 2017 , 142, 2592-2597	3
496	Experimental Investigation of AC Pulse Heating Method for NMC Lithium-Ion Battery at Subzero Temperatures. 2017 ,	
495	An Optimized Energy Management Strategy for Preheating Vehicle-Mounted Li-ion Batteries at Subzero Temperatures. 2017 , 10, 243	27
494	Advances in Integrated Vehicle Thermal Management and Numerical Simulation. 2017 , 10, 1636	27
493	Improving the Performance Attributes of Plug-in Hybrid Electric Vehicles in Hot Climates through Key-Off Battery Cooling. 2017 , 10, 2058	8
492	Lithium-Ion Battery Storage for the Grid—A Review of Stationary Battery Storage System Design Tailored for Applications in Modern Power Grids. 2017 , 10, 2107	287
491	Towards an Ultimate Battery Thermal Management System: A Review. 2017 , 3, 9	50
490	A novel thermal management system for improving discharge/charge performance of Li-ion battery packs under abuse. 2018 , 378, 759-775	24
489	Cold temperature performance of phase change material based battery thermal management systems. 2018 , 4, 303-307	35
488	Study on thermal management of rectangular Li-ion battery with serpentine-channel cold plate. 2018 , 125, 143-152	79

487	Vortex generators for active thermal management in lithium-ion battery systems. 2018 , 124, 800-815	24
486	Passive/Active BTMS For EV Lithium-Ion Batteries. 2018 , 67, 3709-3719	11
485	An experimental study on thermal management of lithium ion battery packs using an improved passive method. 2018 , 134, 163-170	45
484	Experimental investigation of thermal and strain management for lithium-ion battery pack in heat pipe cooling. 2018 , 16, 84-92	57
483	Efficient Large-Scale Thermoelastic Topology Optimization of CAD Geometry with Automated Adaptive Mesh Generation. 2018 ,	3
482	Phase-change materials (PCM) for automotive applications: A review. 2018 , 132, 308-320	180
481	Thermal behavior study of discharging/charging cylindrical lithium-ion battery module cooled by channeled liquid flow. 2018 , 120, 751-762	130
480	Electric vehicles batteries thermal management systems employing phase change materials. 2018 , 378, 383-403	175
479	Fuel cells for airborne usage: Energy storage comparison. 2018 , 43, 11853-11861	13
478	A hybrid shuffled frog leaping algorithm and intelligent water drops optimization for efficiency maximization in smart microgrids considering EV energy storage state of health. 2018 , 35, 5619-5634	3
477	Novel thermal management system using mist cooling for lithium-ion battery packs. 2018 , 223, 146-158	112
476	A review on thermal management methods for robots. 2018 , 140, 799-813	28
475	A review of fractional-order techniques applied to lithium-ion batteries, lead-acid batteries, and supercapacitors. 2018 , 390, 286-296	233
474	Electrochemical Thermal Evaluation of an Integrated Thermal Management System for Lithium-Ion Battery Modules. 2018 , 1, 1800021	3
473	Policy impact of new energy vehicles promotion on air quality in Chinese cities. 2018 , 118, 33-40	42
472	Experimental investigation of a novel hybrid cooling method for lithium-ion batteries. 2018 , 136, 375-387	36
471	Pore-size effects on thermal conductivity of SiO ₂ quartz using non-equilibrium molecular dynamics simulations. 2018 , 17, 1850010	1
470	Smart design and construction of nanoflake-like MnO ₂ /SiO ₂ hierarchical microcapsules containing phase change material for in-situ thermal management of supercapacitors. 2018 , 164, 311-328	43

469	A reliability design method for a lithium-ion battery pack considering the thermal disequilibrium in electric vehicles. 2018 , 386, 10-20	42
468	Ultrathin Metallic Nanowire-Based Architectures as High-Performing Electrocatalysts. 2018 , 3, 3294-3313	11
467	Thermal management optimization of a prismatic battery with shape-stabilized phase change material. 2018 , 121, 967-977	77
466	Thermal runaway mechanism of lithium ion battery for electric vehicles: A review. 2018 , 10, 246-267	998
465	Thermal management of lithium ion batteries using graphene coated nickel foam saturated with phase change materials. 2018 , 124, 23-35	103
464	Experimental examination of large capacity LiFePO ₄ battery pack at high temperature and rapid discharge using novel liquid cooling strategy. 2018 , 42, 1172-1182	43
463	An innovative practical battery thermal management system based on phase change materials: Numerical and experimental investigations. 2018 , 128, 20-32	78
462	The Lattice Boltzmann Investigation for the Melting Process of Phase Change Material in an Inclined Cavity. 2018 , 140,	4
461	. 2018 ,	1
460	Issues, Challenges and Future Prospects of Electric Vehicles: A Review. 2018 ,	4
459	Development and Verification of a Distributed Electro-Thermal Li-Ion Cell Model. 2018 ,	3
458	Thermal Management of Electric Vehicle Batteries Using Heat Pipe and Phase Change Materials. 2018 , 67, 03034	3
457	Pulsating Heat Pipes: Experimental Analysis, Design and Applications. 2018 , 1-62	15
456	Battery Efficiency Measurement for Electrical Vehicle and Smart Grid Applications Using Isothermal Calorimeter: Method, Design, Theory and Results. 2018 ,	
455	Recent Developments in Thermal Management of Electrified Powertrains. 2018 , 67, 11486-11499	19
454	Study of the Temperature and Flame Characteristics of Two Capacity LiFePO ₄ Batteries in Thermal Runaway. 2018 , 165, A3828-A3836	5
453	Liquid-Vapor Phase-Change Heat Transfer on Functionalized Nanowired Surfaces and Beyond. 2018 , 2, 2307-2347	86
452	In situ grown Co ₃ O ₄ nanocubes on N-doped graphene as a synergistic hybrid for applications in nickel metal hydride batteries. 2018 , 43, 18421-18435	13

451	Investigation on thermal performance and pressure loss of the fluid cold-plate used in thermal management system of the battery pack. 2018 , 145, 552-568	51
450	Calculation Model of Effective Thermal Conductivity of a Spiral-wound Lithium Ion Battery. 2018 , 27, 572-579	5
449	Battery thermal management system for electric vehicle using heat pipes. 2018 , 134, 517-529	94
448	A comprehensive review on a passive (phase change materials) and an active (thermoelectric cooler) battery thermal management system and their limitations. 2018 , 401, 224-237	88
447	Selection of thermal management system for modular battery packs of electric vehicles: A review of existing and emerging technologies. 2018 , 400, 621-640	102
446	Challenges and Advancements in Fast Charging Solutions for EVs: A Technological Review. 2018 ,	8
445	Analysis of Passive Temperature Control Systems Using Phase Change Materials for Application to Secondary Batteries Cooling. 2018 , 10,	2
444	Investigation of the effects of nano-graphite on morphological structure and thermal performances of fatty acid ternary eutectics/polyacrylonitrile/nano-graphite form-stable phase change composite fibrous membranes for thermal energy storage. 2018 , 173, 1197-1206	9
443	A review of novel thermal management systems for batteries. 2018 , 42, 3182-3205	81
442	The solutions to electric vehicle air conditioning systems: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 91, 443-463	16.2 75
441	Multimaterial Thermoelastic Stress-constrained Topology Optimization of Structures with Adaptive Mesh Refinement. 2018 ,	0
440	The forced air cooling heat dissipation performance of different battery pack bottom duct. 2018 , 42, 3823-3836	19
439	A thermal conductive composite phase change material with enhanced volume resistivity by introducing silicon carbide for battery thermal management. 2018 , 144, 551-557	38
438	Thermal Management Challenges in Turbo-Electric and Hybrid Electric Propulsion. 2018 ,	2
437	Reverse layered air flow for Li-ion battery thermal management. 2018 , 143, 257-262	66
436	Compact liquid cooling strategy with phase change materials for Li-ion batteries optimized using response surface methodology. 2018 , 228, 777-788	78
435	The impact of enclosure and boundary conditions with a wedge-shaped path and air cooling for battery thermal management in electric vehicles. 2018 , 42, 4054-4069	13
434	Experimental Investigation on Cooling/Heating Characteristics of Ultra-Thin Micro Heat Pipe for Electric Vehicle Battery Thermal Management. 2018 , 31,	13

433	Enhanced Battery Thermal Management Systems with Optimal Charge Control for Electric Vehicles. 2018,	3
432	Application of Robust Design Methodology to Battery Packs for Electric Vehicles: Identification of Critical Technical Requirements for Modular Architecture. 2018, 4, 30	17
431	Numerical investigation on cooling performance of Li-ion battery thermal management system at high galvanostatic discharge. 2018, 21, 957-969	19
430	Effects of the different air cooling strategies on cooling performance of a lithium-ion battery module with baffle. 2018, 144, 231-241	84
429	Modeling and optimization of an enhanced battery thermal management system in electric vehicles. 2019, 14, 65-75	17
428	Thermal management of cylindrical lithium-ion battery based on a liquid cooling method with half-helical duct. 2019, 162, 114257	39
427	Comparative study of natural convection melting inside a cubic cavity using an improved two-relaxation-time lattice Boltzmann model. 2019, 143, 118449	14
426	A Three-dimensional thermal model for a commercial lithium-ion capacitor battery pack with non-uniform temperature distribution. 2019,	7
425	Cell Tab Cooling System for Battery Life Extension. 2019,	1
424	Thermal management of batteries. 2019, 93-110	2
423	Optimal battery sizing procedure for hybrid trolley-bus: A real case study. 2019, 175, 105930	9
422	A review of heat transfer characteristics of switchable insulation technologies for thermally adaptive building envelopes. 2019, 199, 427-444	38
421	Electric vehicle battery thermal management system with thermoelectric cooling. 2019, 5, 822-827	95
420	Pushing the thermal limits of Li-ion batteries. 2019, 64, 103927	23
419	Transient Temperature Distributions on Lithium-Ion Polymer SLI Battery. 2019, 1, 127-137	14
418	Design optimization of bifurcating mini-channels cooling plate for rectangular Li-ion battery. 2019, 139, 963-973	22
417	Three dimensional numerical validation and investigation on air cooling system of Li-ion battery used in hybrid electric vehicles. 2019, 312, 012025	1
416	Experimental and Numerical Study on Thermal and Energy Management of a Fast-Charging Lithium-Ion Battery Pack with Air Cooling. 2019, 145, 04019030	16

4 ¹⁵	Pre-cooling of air by water spray evaporation to improve thermal performance of lithium battery pack. 2019 , 163, 114401	10
4 ¹⁴	Thermal performance of a cylindrical battery module impregnated with PCM composite based on thermoelectric cooling. 2019 , 188, 116048	43
4 ¹³	The performance management of a Li-ion battery by using tree-like mini-channel heat sinks: Experimental and numerical optimization. 2019 , 189, 116150	36
4 ¹²	Battery Health Monitoring for Commercialized Electric Vehicle Batteries: Lithium-Ion. 2019 ,	5
4 ¹¹	Tu1013 Are Out-Of-Pocket Costs Under Medicare a Deterrent to Screening Colonoscopy?. 2019 , 156, S-947	
4 ¹⁰	Cooling performance of nanofluid submerged vs. nanofluid circulated battery thermal management systems. 2019 , 240, 118131	54
4 ⁰⁹	Investigation on effective thermal conductivities of porous electrodes for the commercial Li-ion battery. 2019 , 268, 012099	
4 ⁰⁸	Experimental investigation on electro-thermal characteristics of the commercial Li-ion battery. 2019 , 268, 012117	0
4 ⁰⁷	Designed Novel Carbazole Based Electrolyte Additive for Overcharge Protection of Lithium-Ion Batteries. 2019 , 55, 637-642	4
4 ⁰⁶	Finite element versus experimental Thermo-mechanical behaviour of prismatic Li-Ion cell. 2019 ,	
4 ⁰⁵	A Review of Phase Change Materials for the Thermal Management and Isothermalisation of Lithium-Ion Cells. 2019 , 25, 100887	49
4 ⁰⁴	Preparation and characterization of new nano-particle mixed as thermal storage material. 2019 , 163, 114386	11
4 ⁰³	Thermal management of the lithium-ion battery by the composite PCM-Fin structures. 2019 , 145, 118739	66
4 ⁰²	Experimental study on transient thermal characteristics of stagger-arranged lithium-ion battery pack with air cooling strategy. 2019 , 143, 118576	31
4 ⁰¹	Multi-objective optimization design of double-layered reverting cooling plate for lithium-ion batteries. 2019 , 143, 118580	26
4 ⁰⁰	Development and experimental analysis of a hybrid cooling concept for electric vehicle battery packs. 2019 , 25, 100906	15
399	Experimental investigation on thermal management of cylindrical Li-ion battery pack based on vapor chamber combined with fin structure. 2019 , 162, 114272	20
398	A facile strategy to upgrade electrochemical performances of LiEuTiO ₄ by surface modification derived from pyrolysis of urea. 2019 , 25, 3041-3050	1

397	A lattice Boltzmann modeling and analysis of the thermal convection in a lithium-ion battery. 2019 , 77, 2695-2706	3
396	A comprehensive experimental study on temperature-dependent performance of lithium-ion battery. 2019 , 158, 113800	33
395	Experimental investigation of thermal performance of large-sized battery module using hybrid PCM and bottom liquid cooling configuration. 2019 , 159, 113968	42
394	Thermal Management of Vehicle Cabins, External Surfaces, and Onboard Electronics: An Overview. 2019 , 5, 954-969	27
393	Propagation mechanisms and diagnosis of parameter inconsistency within Li-Ion battery packs. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 112, 102-113	16.2 80
392	Experimental investigation on the effect of ambient pressure on thermal runaway and fire behaviors of lithium-ion batteries. 2019 , 43, 4898-4911	14
391	Experimental and numerical study of supercapacitors module with air-cooling. 2019 , 159, 113903	7
390	Saturated pool boiling heat transfer of acetone and HFE-7200 on modified surfaces by electrophoretic and electrochemical deposition. 2019 , 249, 286-299	29
389	Advanced Electric Vehicle Fast-Charging Technologies. 2019 , 12, 1839	51
388	Optimization on uniformity of lithium-ion cylindrical battery module by different arrangement strategy. 2019 , 157, 113683	16
387	Thermal modeling of full-size-scale cylindrical battery pack cooled by channeled liquid flow. 2019 , 138, 1178-1187	43
386	A novel approach for Lithium-ion battery thermal management with streamline shape mini channel cooling plates. 2019 , 157, 113623	60
385	Experimental Investigation of Water-Cooled Heat Pipes in the Thermal Management of Lithium-Ion EV Batteries. 2019 , 44, 7541-7552	13
384	Experimental Analysis of a Novel Cooling Material for Large Format Automotive Lithium-Ion Cells. 2019 , 12, 1251	7
383	Experimental study on the thermal management performance of air cooling for high energy density cylindrical lithium-ion batteries. 2019 , 155, 96-109	108
382	Simulation of electrochemical-thermal behavior for a 26650 lithium iron phosphate/graphite cell. 2019 , 25, 3715-3726	2
381	A novel flexible room temperature positive temperature coefficient material for thermal management. 2019 , 2, 83-92	14
380	A review on various temperature-indication methods for Li-ion batteries. 2019 , 240, 918-945	122

379	Inhibition effect of different interstitial materials on thermal runaway propagation in the cylindrical lithium-ion battery module. 2019 , 153, 39-50	40
378	Temperature Distribution Optimization of an Air-Cooling Lithium-Ion Battery Pack in Electric Vehicles Based on the Response Surface Method. 2019 , 16,	13
377	Battery pack temperature field compression sensing based on deep learning algorithm. 2019 ,	
376	. 2019 ,	0
375	Investigation of the Thermal Performance of a Wavy Channel Liquid Cooling System for Electric Vehicle Batteries using Computational Fluid Dynamics. 2019 ,	
374	The Role of Domestic Integrated Battery Energy Storage Systems for Electricity Network Performance Enhancement. 2019 , 12, 3954	8
373	Modelling of 3D Temperature Behavior of Prismatic Lithium-Ion Cell With Focus on Experimental Validation Under Battery Electric Vehicle Conditions. 2019 ,	3
372	Efficient Modelling Techniques for J-Type Thermocouples in Electric Vehicle Battery Temperature Monitoring System. 2019 ,	
371	Nanofluid-filled heat pipes in managing the temperature of EV lithium-ion batteries. 2019 , 1349, 012123	3
370	Experimental and numerical study on the thermal behavior of phase change material infiltrated in low porosity metal foam. 2019 , 26, 101005	18
369	Detection of Lithium Plating During Thermally Transient Charging of Li-Ion Batteries. 2019 , 7,	8
368	Comprehensive analysis of melting and solidification of a phase change material in an annulus. 2019 , 55, 769-790	14
367	Research progress on performance of fuel cell system utilized in vehicle. 2019 , 44, 5530-5537	19
366	Preparation of a novel composite phase change material (PCM) and its locally enhanced heat transfer for power battery module. 2019 , 180, 1196-1202	73
365	Cooling efficiency improvement of air-cooled battery thermal management system through designing the flow pattern. 2019 , 167, 781-790	121
364	A critical review of battery thermal performance and liquid based battery thermal management. 2019 , 182, 262-281	294
363	Thermal analysis of conjugated cooling configurations using phase change material and liquid cooling techniques for a battery module. 2019 , 133, 827-841	80
362	Environmental considerations. 2019 , 415-497	

361 Contextual pillars. **2019**, 527-550

360	Investigation on the thermal performance of phase change material/porous medium-based battery thermal management in pore scale. 2019 , 43, 767-778	27
359	Review on battery thermal management system for electric vehicles. 2019 , 149, 192-212	321
358	Minimization of thermal non-uniformity in lithium-ion battery pack cooled by channeled liquid flow. 2019 , 129, 660-670	71
357	Performance improvement of thermal management system of lithium-ion battery module on purely electric AUVs. 2019 , 146, 74-84	14
356	A brief review on key technologies in the battery management system of electric vehicles. 2019 , 14, 47-64	180
355	Development of thermal equivalent circuit model of heat pipe-based thermal management system for a battery module with cylindrical cells. 2020 , 164, 114523	62
354	A comprehensive thermal analysis for the fast discharging process of a Li-ion battery module with liquid cooling. 2020 , 44, 12245-12258	8
353	Development of a Two-Dimensional Thermal Model for Li-Ion Battery Pack With Experimental Validation. 2020 , 12,	1
352	Experimental investigation on a novel phase change material composites coupled with graphite film used for thermal management of lithium-ion batteries. 2020 , 145, 2046-2055	38
351	Mobile applications: cars, trucks, locomotives, marine vehicles, and aircraft. 2020 , 333-358	2
350	Thermal properties and crystallization kinetics of pentaglycerine/graphene nanoplatelets composite phase change material for thermal energy storage. 2020 , 44, 448-459	8
349	Optimized charging of lithium-ion battery for electric vehicles: Adaptive multistage constant current/constant voltage charging strategy. 2020 , 146, 2688-2699	40
348	Thermal Modelling of a Prismatic Lithium-Ion Cell in a Battery Electric Vehicle Environment: Influences of the Experimental Validation Setup. 2020 , 13, 62	13
347	Delayed liquid cooling strategy with phase change material to achieve high temperature uniformity of Li-ion battery under high-rate discharge. 2020 , 450, 227673	55
346	RETRACTED: Using of double distribution function LBM (DDF/LBM) and experimental rheological/thermal measurements of nanofluid for battery thermal management. 2020 , 148, 107796	6
345	Thermal properties improvement of lauric acid/iron foam composites with graphene nanoplates as thermal energy storage materials. 2020 , 27, 101163	9
344	A lithium-ion battery-thermal-management design based on phase-change-material thermal storage and spray cooling. 2020 , 168, 114792	46

343	The state of the art on preheating lithium-ion batteries in cold weather. 2020 , 27, 101059	39
342	Research progress on power battery cooling technology for electric vehicles. 2020 , 27, 101155	74
341	Supervised-Learning-Based Optimal Thermal Management in an Electric Vehicle. 2020 , 8, 1290-1302	9
340	Investigation on the thermal behavior of Ni-rich NMC lithium ion battery for energy storage. 2020 , 166, 114749	23
339	Hybrid thermal management of a Li-ion battery module with phase change material and cooling water pipes: An experimental investigation. 2020 , 166, 114759	59
338	An optimised grey buffer operator for forecasting the production and sales of new energy vehicles in China. 2020 , 704, 135321	20
337	Liquid cooling with phase change materials for cylindrical Li-ion batteries: An experimental and numerical study. 2020 , 191, 116565	50
336	A support approach for the modular design of Li-ion batteries: A test case with PCM. 2020 , 31, 101684	10
335	Thermal analysis and optimization of an EV battery pack for real applications. 2020 , 163, 120384	6
334	Heat-pipe based spray-cooling thermal management system for lithium-ion battery: Experimental study and optimization. 2020 , 163, 120494	13
333	The value of thermal management control strategies for battery energy storage in grid decarbonization: Issues and recommendations. 2020 , 276, 124223	18
332	Recent developments in the passive and hybrid thermal management techniques of lithium-ion batteries. 2020 , 480, 228820	47
331	Evaporation of highly wetting fluids on aluminum microporous coating. 2020 , 163, 120451	2
330	Research trends and perspectives of thermal management of electric batteries: Bibliometric analysis. 2020 , 32, 101976	18
329	A state of art review and future viewpoint on advance cooling techniques for Lithium-ion battery system of electric vehicles. 2020 , 32, 101771	51
328	Battery heating for lithium-ion batteries based on multi-stage alternative currents. 2020 , 32, 101885	44
327	Bipolar Electrodes for Next-Generation Rechargeable Batteries. 2020 , 7, 2001207	20
326	Impact of pulsating vortex dynamics on the thermal performance of a dimpled surface. 2020 , 78, 276-290	

325	A numerical study on the performance of a thermal management system for a battery pack with cylindrical cells based on heat pipes. 2020 , 179, 115740	28
324	Intelligent optimization methodology of battery pack for electric vehicles: A multidisciplinary perspective. 2020 , 44, 9686-9706	10
323	Induction Heater Based Battery Thermal Management System for Electric Vehicles. 2020 , 13, 5711	3
322	Analysis of the structure arrangement on the thermal characteristics of Li-ion battery pack in thermoelectric generator. 2020 , 8, 3717-3727	4
321	A review on effect of heat generation and various thermal management systems for lithium ion battery used for electric vehicle. 2020 , 32, 101729	44
320	ENi(OH) ₂ nanosheets coating on 3D flower-like ENi(OH) ₂ as high-performance electrodes for asymmetric supercapacitor and Ni/MH battery. 2020 , 849, 156616	12
319	Evaluating emissions and sensitivity of economic gains for series plug-in hybrid electric vehicle powertrains for transit bus applications. 2020 , 234, 3272-3287	2
318	Durability of phase-change-material module and its relieving effect on battery deterioration during long-term cycles. 2020 , 179, 115747	39
317	Experimental study on a novel compact cooling system for cylindrical lithium-ion battery module. 2020 , 180, 115772	13
316	Lithium-ion battery thermal management system with Al ₂ O ₃ /AgO/CuO nanofluids and phase change material. 2020 , 180, 115840	42
315	A generalized lattice Boltzmann model for solid-liquid phase change with variable density and thermophysical properties. 2020 , 104, 106250	6
314	Experimental study of lithium-ion battery cooling using mixture of phase change materials. 2020 , 12, 168	1
313	Near-Zero-Energy Smart Battery Thermal Management Enabled by Sorption Energy Harvesting from Air. 2020 , 6, 1542-1554	34
312	Thermal Performance of a Micro Heat Pipe Array for Battery Thermal Management Under Special Vehicle-Operating Conditions. 2020 , 3, 317-327	2
311	A Detailed Review on Electric Vehicles Battery Thermal Management System. 2020 , 912, 042005	4
310	Critical review on battery thermal management and role of nanomaterial in heat transfer enhancement for electrical vehicle application. 2020 , 32, 102003	32
309	. 2020 ,	2
308	Thermal Management of Stationary Battery Systems: A Literature Review. 2020 , 13, 4194	6

307	Cell Replacement Strategies for Lithium Ion Battery Packs. 2020 , 6, 39	1
306	Simulation-based optimization framework for economic operations of autonomous electric taxicab considering battery aging. 2020 , 279, 115721	3
305	Experimental Analysis on the Thermal Management of Lithium-Ion Batteries Based on Phase Change Materials. 2020 , 10, 7354	5
304	Design of an Optimized Thermal Management System for Li-Ion Batteries under Different Discharging Conditions. 2020 , 13, 5695	30
303	Thermal management performance of a fin-enhanced phase change material system for the lithium-ion battery. 2020 , 44, 7617-7629	18
302	Performance Evaluation of Battery Thermal Management System in Electric Vehicle using Induction Heater (Part 1: Parallel System). 2020 , 28, 2050003	1
301	Thermal characteristics of power battery module with composite phase change material and external liquid cooling. 2020 , 156, 119820	32
300	Smart Utilization of Multifunctional Metal Oxides in Phase Change Materials. 2020 , 3, 708-741	41
299	Thermal performance enhancement of phase change material using aluminum-mesh grid foil for lithium-capacitor modules. 2020 , 30, 101508	28
298	Simulation analysis of the influence of internal surface morphology of mini-channel on battery thermal management. 2020 , 44, 8854-8864	6
297	Effect of Sm on performance of Pr/Nd/Mg-free and low-cobalt AB4.6 alloys in nickel-metal hydride battery electrode. 2020 , 829, 154530	13
296	Configuration, design, and optimization of air-cooled battery thermal management system for electric vehicles: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 125, 109815	16.2 74
295	Performance of a liquid cooling-based battery thermal management system with a composite phase change material. 2020 , 44, 4727-4742	21
294	An application of evolutionary computation algorithm in multidisciplinary design optimization of battery packs for electric vehicle. 2020 , 2, e158	6
293	A Review on Temperature-Dependent Electrochemical Properties, Aging, and Performance of Lithium-Ion Cells. 2020 , 6, 35	27
292	Recent advances of thermal safety of lithium ion battery for energy storage. 2020 , 31, 195-220	92
291	A thermal-structure coupled optimization study of lithium-ion battery modules with mist cooling. 2020 , 44, 12295-12311	7
290	Modified phase change materials used for thermal management of a novel solar thermoelectric generator. 2020 , 208, 112459	17

289	Experimental study on thermal performance of a pumped two-phase battery thermal management system. 2020 , 44, 4664-4676	7
288	Experimental study on aerogel passive thermal control method for cylindrical lithium-ion batteries at low temperature. 2020 , 169, 114946	11
287	Analysis of a Battery Pack with a Phase Change Material for the Extreme Temperature Conditions of an Electrical Vehicle. 2020 , 13, 507	15
286	Cooling optimization strategy for lithium-ion batteries based on triple-step nonlinear method. 2020 , 201, 117678	18
285	Investigation on the effects of temperature equilibrium strategy in battery thermal management using phase change material. 2020 , 44, 7660-7673	11
284	Impact of Microstructure on the Electrochemical Performance of Round-Shaped Pitch-Based Graphite Fibers. 2020 , 13,	1
283	High Reynoldß Number Turbulent Model for Micro-Channel Cold Plate Using Reverse Engineering Approach for Water-Cooled Battery in Electric Vehicles. 2020 , 13, 1638	47
282	Prediction of compression force evolution over degradation for a lithium-ion battery. 2021 , 483, 229079	8
281	Novel experimental approach for the characterisation of Lithium-Ion cells performance in isothermal conditions. 2021 , 214, 118965	2
280	A novel procedure combining computational fluid dynamics and evolutionary approach to minimize parasitic power loss in air cooling of Li-ion battery for thermal management system design. 2021 , 3, e210	2
279	High capacity and mobility in germanium sulfide/graphene (GeS/Gr) van der Waals heterostructure as anode materials for sodium-ion batteries: A first-principles investigation. 2021 , 536, 147779	7
278	Thermal performance of aluminum vapor chamber for EV battery thermal management. 2021 , 185, 116337	6
277	Latent heat thermal energy storage: A bibliometric analysis explicating the paradigm from 2000-2019. 2021 , 33, 102027	7
276	Characterization and thermal properties of a shape-stable Na ₂ CO ₃ -K ₂ CO ₃ /coal fly ash/expanded graphite composite phase change materials for high-temperature thermal energy storage. 2021 , 33, 102123	17
275	A full-scale electrical-thermal-fluidic coupling model for li-ion battery energy storage systems. 2021 , 185, 116360	4
274	Structural design of a composite board/heat pipe based on the coupled electro-chemical-thermal model in battery thermal management system. 2021 , 216, 119234	14
273	Hybrid heat sinks for thermal management of passively cooled battery chargers. 2021 , 45, 6333-6349	0
272	Evaluation of fin intensified phase change material systems for thermal management of Li-ion battery modules. 2021 , 166, 120753	22

271	Thermal behavior of lithium-ion battery in microgrid application: Impact and management system. 2021 , 45, 4967-5005	2
270	Experiments and correlations of saturation boiling of hfe-7000 dielectric liquid on rough inclined copper surfaces. 2021 , 164, 120540	2
269	Numerical investigation on the usage of finned surface in lithium nickel manganese cobalt oxides batteries by using air cooling method. 2021 , 3, e216	2
268	A review of state of the art thermal diodes and their potential applications. 2021 , 164, 120607	22
267	Electric vehicles. 2021 , 13-49	0
266	Safer Lithium-Ion Batteries from the Separator Aspect: Development and Future Perspectives. 2021 , 4, 336-362	24
265	Investigation on the Transient Thermal Performance of a Mini-Channel Cold Plate for Battery Thermal Management. 2021 , 30, 914-925	6
264	Analysing the performance of liquid cooling designs in cylindrical lithium-ion batteries. 2021 , 33, 100913	20
263	Review of the Approaches and Modeling Methodology for Lithium-Ion Battery Thermal Management Systems in Electric Vehicles. 2021 , 75-109	2
262	Three-dimensional CFD study on heat dissipation in cylindrical lithium-ion battery module. 2021 , 46, 10964-10968	
261	Selection of an Ideal Coolant to Ward Off the Thermal Runaway of a Pouch Type Li-Ion Battery Module. 2021 , 18,	3
260	Applications of coupling thermosyphons with phase change materials: A review. 2021 , 233, 110690	4
259	Investigation of the Applicability of Helium-Based Cooling System for Li-Ion Batteries. 2021 , 2, 135-148	4
258	Future smart battery and management: Advanced sensing from external to embedded multi-dimensional measurement. 2021 , 489, 229462	67
257	Materials selection for hybrid and electric vehicle battery pack thermal management: A review. 2021 , 1126, 012072	
256	Effects of micro heat pipe arrays on thermal management performance enhancement of cylindrical lithium-ion battery cells. 2021 , 45, 11245-11257	1
255	Smart Adaptronic Thermal Management System Designs for The Li-ion Battery Packs. 2021 ,	0
254	Simulation and analysis of air cooling configurations for a lithium-ion battery pack. 2021 , 35, 102270	20

253	Challenging Issues and Solutions on Battery Thermal Management for Electric Vehicles. 2021 , 535-553	2
252	Developments in battery thermal management systems for electric vehicles: A technical review. 2021 , 35, 102255	40
251	Development of hybrid thermal management techniques for battery packs. 2021 , 186, 116542	6
250	Experimental and Numerical Investigation of the Thermal Performance of a Hybrid Battery Thermal Management System for an Electric Van. 2021 , 7, 27	3
249	Spreading and Drying Dynamics of Water Drop on Hot Surface of Superwicking Ti-6Al-4V Alloy Material Fabricated by Femtosecond Laser. 2021 , 11,	2
248	A comprehensive review on thermal management systems for power lithium-ion batteries. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 139, 110685	16.2 30
247	Silver-Modified Carbon Fluoride as the Cathode Material for Pouch-Type Primary Lithium Batteries. 2021 , 50, 4075-4082	0
246	Development of electric construction machinery in China: a review of key technologies and future directions. 2021 , 22, 245-264	4
245	Experimental and numerical studies on an efficient transient heat transfer model for air-cooled battery thermal management systems. 2021 , 490, 229539	20
244	A Review on Thermal Energy Modelling for Optimal Microgrids Management. 2021 , 1, 63-76	1
243	A passive thermal management system of Li-ion batteries using PCM composites: Experimental and numerical investigations. 2021 , 169, 120894	33
242	Multi-Objective Optimization of Structural Parameters of Air-Cooled System for Lithium Battery Pack Based on Surrogate Model. 2021 , 18,	0
241	Efficient thermal management of the large-format pouch lithium-ion cell via the boiling-cooling system operated with intermittent flow. 2021 , 170, 121018	3
240	Optimization of charging strategy for lithium-ion battery packs based on complete battery pack model. 2021 , 37, 102466	7
239	Lightweight liquid cooling based thermal management to a prismatic hard-cased lithium-ion battery. 2021 , 170, 120998	12
238	Thermally conductive silicone composites modified by graphene-oxide aerogel beads loaded with phase change materials as efficient heat sinks. 2021 , 189, 116713	2
237	Internal short circuit mechanisms, experimental approaches and detection methods of lithium-ion batteries for electric vehicles: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 141, 110790	16.2 23
236	A delayed cooling system coupling composite phase change material and nano phase change material emulsion. 2021 , 191, 116888	14

235	Experimental investigation of thermoelectric cooling for a new battery pack design in a copper holder. 2021 , 10, 100214	11
234	Experimental Comparison of Two Liquid Cooling Methods for Ultrafast Charging Lithium-Ion Battery Modules. 2021 ,	0
233	Researching on the Sustainability of Transportation Industry Based on a Coupled Energy and System Dynamics Model: A Case Study of Qinghai. 2021 , 13, 6804	2
232	Analysis of temperature uniformity of electric vehicle battery system with swirling flow strengthened heat transfer. 2021 , 193, 116995	4
231	Thermal management of a simulated battery with the compound use of phase change material and fins: Experimental and numerical investigations. 2021 , 165, 106945	14
230	Experimental study of a novel strategy to construct the battery thermal management module by using tubular phase change material units. 2021 , 39, 102585	11
229	Design of a Battery Cooling System for Hybrid Electric Aircraft. 2021 ,	1
228	Comprehensive Investigation of a Slight Overcharge on Degradation and Thermal Runaway Behavior of Lithium-Ion Batteries. 2021 , 13, 35054-35068	10
227	A review of thermal management for Li-ion batteries: Prospects, challenges, and issues. 2021 , 39, 102518	23
226	Numerical study of combined air and phase change cooling for lithium-ion battery during dynamic cycles. 2021 , 165, 106968	14
225	Investigation of thermal management of lithium-ion battery based on micro heat pipe array. 2021 , 39, 102624	8
224	Modeling Approach of an Air-Based Battery Thermal Management System for an Electric Vehicle. 2021 , 11, 7089	5
223	A review of air-cooling battery thermal management systems for electric and hybrid electric vehicles. 2021 , 501, 230001	41
222	Mineral Oil Immersion Cooling of Lithium-Ion Batteries: An Experimental Investigation. 2022 , 19,	4
221	Effect of geometry and thermal mass of Direct-Metal-Laser-Sintered aluminium Heat Exchangers filled with phase change materials on Lithium-Ion cells passive cooling. 2021 , 195, 117151	1
220	Optimization of cooling strategies for an electric vehicle in high-temperature environment. 2021 , 195, 117088	8
219	Enhanced thermal conductivity of palmitic acid/copper foam composites with carbon nanotube as thermal energy storage materials. 2021 , 40, 102783	3
218	A cycle research methodology for thermo-chemical engines: From ideal cycle to case study. 2021 , 228, 120599	1

217	Simulation and analysis of heat dissipation performance of power battery based on phase change material enhanced heat transfer variable fin structure. 1-21	3
216	Electro-thermal model for lithium-ion battery simulations. 2021 , 21, 1530-1541	0
215	A hybrid thermal management system for high power lithium-ion capacitors combining heat pipe with phase change materials. 2021 , 7, e07773	13
214	Improving the Air-Cooling Performance for Battery Packs via Electrothermal Modeling and Particle Swarm Optimization. 2021 , 7, 1285-1302	1
213	CFD Analysis of a Prismatic Liquid Cooled Battery Pack to Optimize and Evaluate Pack Performance Under Variable Operating and Coolant Conditions.	
212	Role of wall-fluid interaction and rough morphology in heat and momentum exchange in nanochannel. 2021 , 298, 117183	2
211	Analysis of Heat Dissipation and Preheating Module for Vehicle Lithium Iron Phosphate Battery. 2021 , 14, 6196	1
210	Two-region semi-analytical solution for latent heat thermal energy storage systems.	
209	Battery thermal management systems (BTMs) based on phase change material (PCM): a comprehensive review. 2021 , 132741	35
208	Thermal uniformity performance of a hybrid battery thermal management system using phase change material and cooling plates arrayed in the manner of honeycomb. 2021 , 26, 101094	5
207	A numerical analysis on multi-stage Tesla valve based cold plate for cooling of pouch type Li-ion batteries. 2021 , 177, 121560	11
206	Review on battery thermal management systems for energy-efficient electric vehicles. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 151, 111611	16.2 9
205	Development in energy storage system for electric transportation: A comprehensive review. 2021 , 43, 103153	11
204	A 3D electrochemical-thermal coupled model for electrochemical and thermal analysis of pouch-type lithium-ion batteries. 2021 , 181, 121855	6
203	A new approach for battery thermal management system design based on Grey Relational Analysis and Latin Hypercube Sampling. 2021 , 28, 101452	3
202	Reversible kinetics and rapid tunnelling characteristics of silicon doped magnesium-titanium nanocomposites prepared by mechanical alloying route for nickel-metal hydride batteries. 2021 , 274, 125129	1
201	Advances in thermal management systems for next-generation power batteries. 2021 , 181, 121853	17
200	Experimental study on the thermal management performance of phase change material module for the large format prismatic lithium-ion battery. 2022 , 238, 122081	2

199	A review on thermal management of lithium-ion batteries for electric vehicles. 2022 , 238, 121652	46
198	Thermal Management System for High Performance Battery Based on an Innovative Dielectric Fluid. 2021 , 33-42	
197	Investigation of the thermal properties of phase change materials encapsulated in capped carbon nanotubes using molecular dynamics simulations.. 2021 , 11, 24594-24606	1
196	Thermal Property Measurements of a Large Prismatic Lithium-ion Battery for Electric Vehicles. 2021 , 30, 477-492	4
195	Design and Simulation of Air Cooled Battery Thermal Management System Using Thermoelectric for a Hybrid Electric Bus. 2013 , 463-473	1
194	Hierarchical macro-nanoporous metals for leakage-free high-thermal conductivity shape-stabilized phase change materials. 2020 , 269, 115088	23
193	Passive cooling of Li-Ion cells with direct-metal-laser-sintered aluminium heat exchangers filled with phase change materials. 2020 , 173, 115238	8
192	The influence of samarium (Sm) on the discharge and electrochemical behaviors of the magnesium alloy AZ80 as an anode for the Mg-air battery. 2020 , 348, 136315	31
191	A promising anode candidate for rechargeable nickel metal hydride power battery: An A5B19-type LaSmNi ₄ MgNiAl-based hydrogen storage alloy. 2020 , 465, 228236	6
190	Diffusion-driven ultralow thermal conductivity in amorphous Nb ₂ O ₅ thin films. 2019 , 3,	15
189	Experimental Study of a Thermal Cooling Technique for Cylindrical Batteries. 2020 , 17,	3
188	Structure Optimization of Battery Module With a Parallel Multi-Channel Liquid Cooling Plate Based on Orthogonal Test. 2020 , 17,	4
187	Heat Transfer Efficiency Enhancement of Lithium-Ion Battery Packs by Using Novel Design of Herringbone Fins. 2020 , 17,	5
186	Technical Study of a Standalone Photovoltaic-Wind Energy Based Hybrid Power Supply Systems for Island Electrification in Malaysia. 2015 , 10, e0130678	10
185	Nitride MXenes as sulfur hosts for thermodynamic and kinetic suppression of polysulfide shuttling: a computational study.	4
184	Control as an Enabler for Electrified Mobility. 2022 , 5,	0
183	Thermal management of a high temperature sodium sulphur battery stack. 2021 , 181, 122025	1
182	Integrated Battery Management System. 2015 , 173-193	4

- 181 Application status and future of multi-scale numerical models for lithium ion battery. **2015**, 64, 210202 9
- 180 Optimierung von Hochvolt-Batterien für automobiler Anwendungen mit Hilfe thermischer und elektrischer Modelle. **2017**, 193-210
- 179 Optimization of operating conditions of heat pipes BTMS using response surface method. **2018**,
- 178 Thermal Management of Electrical and Electronic Systems Using PCM. **2018**,
- 177 Numerical Analysis of the Cooling Performance in a 7.2 kW Integrated Bidirectional OBC/LDC Module. **2020**, 10, 270 2
- 176 Innovative Fluid Allowing a New and Efficient Battery Thermal Management. 0
- 175 Simulation of a Set of Lithium-Ion Batteries With Composite Phase Change Materials and Heating Films Thermal Management System at Low Temperature. **2021**, 13, 2
- 174 High Voltage Battery (HVB) Durability Enhancement in Electric Mobility through 1D CAE.
- 173 Thermal management evaluation of Li-ion battery employing multiple phase change materials integrated thin heat sinks for hybrid electric vehicles. **2021**, 516, 230680 6
- 172 Study of Cooling Characteristics of 18650 Li-ion Cell Module with Different Types of Phase Change Materials (PCMs). **2020**, 31, 622-629
- 171 Recent advancement and enhanced battery performance using phase change materials based hybrid battery thermal management for electric vehicles. *Renewable and Sustainable Energy Reviews*, **2022**, 154, 111759 16.2 4
- 170 A Review on Crashworthiness and Cooling Models for Lithium-Ion Batteries in Electric Vehicles. **2020**, 75-84
- 169 Pulsating Heat Pipe Automotive Application.
- 168 Analysis of Heat Transfer Characteristics and Optimization of Cold Plate for Power Battery. **2021**,
- 167 Simulation and Parametric Analysis of Battery Thermal Management System Using Phase Change Material.
- 166 Emergence of elevated battery positioning in air cooled battery packs for temperature uniformity in ultra-fast dis/charging applications. **2021**, 45, 103516 3
- 165 Optimal Design of Liquid-Cooled Plates for Lithium-Ion Batteries Using Multi-Objective Topology Optimization. 1-10 2
- 164 Carbon/air secondary battery system and demonstration of its charge-discharge. **2021**, 516, 230681 0

163	Investigation of mixed convection of non-Newtonian fluid in the cooling process of lithium-ion battery with different outlet position. 2021 , 46, 103621	0
162	Study of the effect of the aspect ratio of a cylindrical lithium-ion battery enclosure in an air-cooled thermal management system. 2022 , 45, 103684	6
161	Multi-objective optimization of mini U-channel cold plate with SiO ₂ nanofluid by RSM and NSGA-II. 2022 , 242, 123039	5
160	Effect of using a solar hot air collector installed on the inclined roof of a building for cooling and heating system in the presence of polymeric PCM. 2022 , 50, 101852	4
159	A novel elastomeric copolymer-based phase change material with thermally induced flexible and shape-stable performance for prismatic battery module. 2022 , 174, 107435	1
158	An Analytical 2D Formulation for the Combined Cooling of PCM-Covered Cylindrical Battery Cells. 2022 , 148,	
157	Comparative Study and Development of Optimized Energy Efficient Battery Thermal Management System for Electric Vehicles in India. 2021 ,	
156	Prediction and optimization of the design decisions of liquid cooling systems of battery modules using artificial neural networks.	1
155	Experimental and Numerical Study for a Novel Arrangement of a SuperCapacitors Stack to Improve Heat Transfer. 2022 , 12, 662	1
154	Resource Availability and Implications for the Development of Plug-In Electric Vehicles. 2022 , 14, 1665	2
153	Recent research progress on phase change materials for thermal management of lithium-ion batteries. 2022 , 45, 103694	8
152	Bifunctional CoO/CoS ₂ hierarchical nanospheres electrocatalyst for rechargeable Zn-Air battery. 2022 , 32, 100343	1
151	Study on the Influence of Flat Heat Pipe Structural Parameters in Battery Thermal Management System. 2022 , 9,	0
150	Connecting battery technologies for electric vehicles from battery materials to management.. 2022 , 25, 103744	6
149	Effect of nanoparticles shape on the cooling process of a lithium ion battery in geometry with capillary channels in the presence of phase change material. 2022 , 48, 103998	1
148	Cooling of a lithium-ion battery using microchannel heatsink with wavy microtubes in the presence of nanofluid. 2022 , 49, 104128	4
147	Numerical simulation of air outlet spacing change in thermal management lithium-ion battery pack with triangular arrangement for use in electric vehicles. 2022 , 49, 104117	1
146	A design methodology of large-scale metal hydride reactor based on schematization for hydrogen storage. 2022 , 49, 104047	0

- 145 A new battery thermal management system employing the mini-channel cold plate with pin fins. **2022**, 51, 101993 1
- 144 Advanced thermal management system driven by phase change materials for power lithium-ion batteries: A review. *Renewable and Sustainable Energy Reviews*, **2022**, 159, 112207 16.2 5
- 143 Thermal Characteristics of Refrigerant Flow Boiling in Two Mini-Channel Heat Sinks of Different Aspect Ratios for Battery Thermal Management.
- 142 A Review on Different Technology Used in Battery Management System of Electric Vehicle. **2022**, 621-631
- 141 Concept for thermal analysis of batteries using reduced order modeling. **2022**,
- 140 Electrochemical Modeling of a Thermal Management System for Cylindrical Lithium-Ion Battery Pack Considering Battery Capacity Fade.
- 139 Thermal Management of Electrified VehiclesA Review. **2022**, 15, 1326 2
- 138 Basics, properties, and thermal issues of EV battery and battery thermal management systems: Comprehensive review. 095440702210791 1
- 137 Lithium-ion battery module performance improvements by using nanodiamond- Fe_3O_4 water/ethylene glycol hybrid nanofluid and fins. 1
- 136 Simulation and Control of Battery Thermal Management System for Electric Vehicle. 0
- 135 Performance Analysis of Electrical Vehicle Battery Thermal Management System. 0
- 134 Stationary Battery Thermal Management: Analysis of Active Cooling Designs. **2022**, 8, 23 0
- 133 Recent Developments of Thermal Management Strategies for Lithium-Ion Batteries: A State-of-The-Art Review. 2101135 0
- 132 Experimental Investigation on Pouch Lithium-ion Battery Thermal Management with Mini-Channels Cooling Plate Based on Heat Generation Characteristic. 1 0
- 131 Electrochemical modeling of a thermal management system for cylindrical lithium-ion battery pack considering battery capacity fade. **2022**, 32, 101878 1
- 130 Development of a hybrid cooling concept for cylindrical li-ion cells. **2022**, 50, 104214 0
- 129 The effect of the zigzag arrangement of lithium-ion batteries inside the air duct of an office building for heating and evaluation of the impact of the number of air outlets in different seasons of the year. **2022**, 50, 104204 2
- 128 Influence of the number of holes and two types of PCM in brick on the heat flux passing through the wall of a building on a sunny day in Medina, Saudi Arabia. **2022**, 50, 104215 0

127	Shape-stabilized phase change material with internal coolant channel coupled with phase change emulsion for power battery thermal management. 2022 , 438, 135648	2
126	Study of pressure drop and heat transfer in cooling of lithium-ion battery with rhombic arrangement with two different outlets and different inlet dimensions. 2022 , 50, 104255	1
125	Computational Fluid Dynamics (CFD) analysis of Graphene Nanoplatelets for the cooling of a multiple tier Li-ion battery pack. 2022 , 31, 101282	0
124	Thermal performance revival of composite PCM for hybrid BTMSs by architecture and formula integrated optimization. 2022 , 210, 118320	1
123	Thermal management systems based on heat pipes for batteries in EVs/HEVs. 2022 , 51, 104384	1
122	Effect of nano phase change materials on the cooling process of a triangular lithium battery pack. 2022 , 51, 104326	11
121	Investigation on fine water mist battery thermal management system for thermal runaway control. 2022 , 211, 118474	
120	Investigation of heat transfer, melting and solidification of phase change material in battery thermal management system based on blades height. 2022 , 51, 104429	0
119	Lithium-ion batteries investigation regarding different fins distribution associated electrochemical effects and various voltage types. 2022 , 51, 104383	0
118	Assessment of the effect of distance between lithium-ion batteries with a number of triangular blades, on the thermal management of the battery pack in a chamber full of phase change material. 2022 , 51, 104391	0
117	Potentials of porous materials for temperature control of lithium-ion batteries. 2022 , 51, 104457	0
116	Overview of batteries and battery management for electric vehicles. 2022 , 8, 4058-4084	9
115	Thermal Performance of a Cylindrical Lithium-Ion Battery Module Cooled by Two-Phase Refrigerant Circulation. 2021 , 14, 8094	
114	Numerical and Experimental Investigation on the Performance of Battery Thermal Management System Based on Micro Heat Pipe Array. 1	
113	F90Heat Transfer Phenomena of Copper-Graphene Nanocomposite Coated Aluminium Heat Spreaders: An Interferometric Study. 2022 , 118545	0
112	Comparison of Model-Based and Sensor-Based Detection of Thermal Runaway in Li-Ion Battery Modules for Automotive Application. 2022 , 8, 34	3
111	Battery thermal management systems based on nanofluids for electric vehicles. 2022 , 50, 104385	2
110	Numerical simulation of dimensions and arrangement of triangular fins mounted on cylindrical lithium-ion batteries in passive thermal management. 2022 , 50, 104392	0

- 109 Phase change material based thermal management of lithium ion batteries: A review on thermal performance of various thermal conductivity enhancers. **2022**, 50, 104606 1
- 108 Table_1.DOCX. **2019**,
- 107 Optimization of the Battery Pack Heat Dissipation Structure of a Battery-Type Loader. **2022**, 12, 4518
- 106 Thermal management system of lithium-ion battery packs for electric vehicles: An insight based on bibliometric study. **2022**, 52, 104723 2
- 105 High-performance solid-state supercapacitors integrated with thermal management systems based on phase change materials: All in one. **2022**, 446, 136787 1
- 104 Thermal Management of Various Battery array arrangement at various Environmental conditions for hybrid and electrical vehicles. **2022**, 2178, 012020
- 103 CFD Analysis of Battery Thermal Management System. **2022**, 2178, 012035
- 102 Determination of phase change temperature of materials from adiabatic scanning calorimetry data. 0
- 101 Optimization of an air-cooled battery module with novel cooling channels based on silica cooling plates. **2022**, 118650 0
- 100 Preparation of thermally conductive composite phase change materials and its application in lithium-ion batteries thermal management. **2022**, 52, 104857 2
- 99 Comprehensive Assessment of Electric Vehicle Development, Deployment, and Policy Initiatives to reduce GHG Emissions: Opportunities and Challenges. **2022**, 1-1 3
- 98 Effect of using a heatsink with nanofluid flow and phase change material on thermal management of plate lithium-ion battery. **2022**, 52, 104686 0
- 97 Effects of different phase change materials on battery thermal management system: A comprehensive review. **2022**,
- 96 Maximum Fast-Charging Current Estimation Algorithm Considering Temperature of Lithium-ion Batteries in Electrical Vehicles. **2022**,
- 95 Numerical study of lozenge, triangular and rectangular arrangements of lithium-ion batteries in their thermal management in a cooled-air cooling system. **2022**, 52, 104786 4
- 94 Thermal management of lithium-ion batteries with nanofluids and nano-phase change materials: a review. **2022**, 539, 231605 2
- 93 A Study on Forced-Air Thermal Dissipation in Lithium-Ion Batteries Using Numerical Method. **2022**, 1064-1079
- 92 Zarf tipi Lityum iyon batarya h releri i n farklı so tma uygulamaları sayısal incelenmesi.

91	Towards Safer and Smarter Design for Lithium-Ion-Battery-Powered Electric Vehicles: A Comprehensive Review on Control Strategy Architecture of Battery Management System. 2022 , 15, 4227	1
90	Battery thermal management systems: Recent progress and challenges. 2022 , 100171	4
89	Advanced Thermal Management Systems for High-Power Lithium-Ion Capacitors: A Comprehensive Review. 2022 , 6, 53	1
88	Numerical study of two heat exchangers for the cooling of a battery pack for an electric vehicle. 2, 81	
87	Solid-liquid phase change materials for the battery thermal management systems in electric vehicles and hybrid electric vehicles A systematic review. 2022 , 52, 105026	0
86	Phase Change Materials Employment for Battery Thermal Management System in Electric and Hybrid Vehicles: A Review.	
85	Research on Energy Management Strategy of Fuel Cell Vehicle Based on Multi-Dimensional Dynamic Programming. 2022 , 15, 5190	3
84	Challenges and Opportunities for Future BEVs Adoption in Croatia. 2022 , 14, 8080	1
83	Thermal management modeling for cylindrical lithium-ion battery packs considering safety and lifespan. 2022 , 36, 3727-3733	
82	Electrically assisted pressure joining of thin bi-layer aluminum-clad aluminum sheets.	0
81	Advanced Engineering Materials for Enhancing Thermal Management and Thermal Safety of Lithium-Ion Batteries: A Review. 10,	0
80	Advances in the improvement of thermal-conductivity of phase change material-based lithium-ion battery thermal management systems: An updated review. 2022 , 53, 105195	0
79	Machine Learning-Based Hybrid Thermal Modeling and Diagnostic for Lithium-Ion Battery Enabled by Embedded Sensing. 2022 , 119059	0
78	Effect of Battery Thermal Management System on Temperature Distribution and Uniformity. 2022 , 148,	0
77	Safety Concerns for the Management of End-of-Life Lithium-Ion Batteries. 2200049	1
76	Fault Tolerance Optimization of a Lithium Battery Pack Having a Damaged Unit.	
75	Ameliorating discharge capability of Co-free flower-like spherical $\text{Ni}(\text{OH})_2$ by NiS coating. 2022 , 141074	1
74	Thermal management analysis of simulative power batteries using phase change material and flat heat pipe.	

73	Phase change materials for battery thermal management of electric and hybrid vehicles: A review. 2022 , 7, 100131	1
72	Experimental study in thermal expansion devices of phase-change material coupled to vapor chamber with gradient wettability wick. 2022 , 55, 105429	2
71	Helical carbon nanotubes filled phase change composites with reversible plasticity shape memory and photo-thermal conversion functions towards wide-temperature-range battery thermal management. 2022 , 162, 107139	2
70	Thermal characteristics of refrigerant flow boiling in two mini-channel heat sinks of different aspect ratios for battery thermal management. 2022 , 217, 119173	
69	A novel nanofluid cooling system for modular lithium-ion battery thermal management based on wavy/stair channels. 2022 , 182, 107823	0
68	Cooling performance of battery pack as affected by inlet position and inlet air velocity in electric vehicle. 2022 , 39, 102382	1
67	A coupled power battery cooling system based on phase change material and its influencing factors. 2022 , 326, 119917	0
66	Lattice Boltzmann simulation of the melting enhancement of composite phase change material with highly conductive additives - Effect of discrete particulate phase and continuous conductive network. 2022 , 217, 119211	0
65	Lityum iyon pillerin faz deňim maddesi ile iletkenlikte kanat kullanma sayısal incelenmesi.	0
64	Key Technologies of BMS. 2023 , 33-51	0
63	Coupling Analysis on the Thermophysical Parameters and the Performance of Liquid Cooling-Based Thermal Management System for Lithium-Ion Batteries. 2022 , 15, 6865	0
62	Numerical Analysis of Novel Air-Based Li-Ion Battery Thermal Management. 2022 , 8, 128	1
61	A comprehensive review of battery thermal management systems for electric vehicles. 095440892211239	0
60	A review on electrical and mechanical performance parameters in lithium-ion battery packs. 2022 , 134381	0
59	Separate and integrated thermal management solutions for electric vehicles: A review. 2022 , 550, 232133	1
58	Progression of battery storage technology considering safe and sustainable stationary application. 2022 , 377, 134279	0
57	Chemistry of Li-air batteries. 2022 ,	0
56	A Low-Cost and Lightweight Thermal Management System for Lithium-Ion Battery Modules Based on Composite PCM under Normal EV Operating Conditions. 2022 , 2350, 012003	0

55	Research on Closed-Loop Supply Chain Decision Making of Power Battery Considering Subsidy Transfer under EPR System. 2022 , 14, 12488	0
54	Towards intelligent and integrated architecture for hydrogen fuel cell system: challenges and approaches. 2022 ,	0
53	Mitigation of Heat Propagation in a Battery Pack by Interstitial Graphite Nanoplatelet Layer: Coupled Electrochemical-Heat Transfer Model. 2022 , 6, 296	0
52	Experimental and Simulations Study of Thermal Performance of Cell-to-Pack Structure for a Li-ion Battery Pack. 1-9	0
51	Performance of organic Rankine cycle using waste heat from electric vehicle battery.	0
50	Thermal design analysis for SuperTruck II lithium-titanate battery pack. 2022 , 56, 105753	0
49	A review of thermal runaway prevention and mitigation strategies for lithium-ion batteries. 2022 , 16, 100310	0
48	A review on recent key technologies of lithium-ion battery thermal management: External cooling systems. 2022 , 16, 100703	1
47	A Review on lithium-ion battery thermal management system techniques: A control-oriented analysis. 2023 , 219, 119497	1
46	Numerical Modelling of Thermal Runaway for Li-Ion Battery Module For EV Applications. 2021 ,	0
45	Smart Battery Management Technology in Electric Vehicle Applications: Analytical and Technical Assessment toward Emerging Future Directions. 2022 , 8, 219	1
44	A Review on Paraffin Phase Change Material-Based Thermal Management of Li-Ion Battery. 2023 , 149-160	0
43	Battery thermal management system with heat pipe considering battery aging effect. 2022 , 126116	1
42	A review on the active thermal management researches of epidermal electronic devices. 2022 , 12, 110701	0
41	Global Perspectives on and Research Challenges for Electric Vehicles. 2022 , 4, 1246-1276	1
40	Structural modifications of sinusoidal wavy minichannels cold plates applied in liquid cooling of lithium-ion batteries. 2023 , 57, 106208	0
39	Optimization of battery cooling system used in electric vehicles. 2023 , 58, 106299	0
38	Thermal analysis of modified Z-shaped air-cooled battery thermal management system for electric vehicles. 2023 , 58, 106356	3

- 37 Experimental and modeling investigation on thermal risk evaluation of tabs for pouch-type lithium-ion battery and the relevant heat rejection strategies. **2023**, 202, 123770 1
- 36 A novel phase change materials used for direct photothermal conversion and efficient thermal storage. **2023**, 251, 112142 0
- 35 Experimental Investigation of Air Cooling With/Out Tab Cooling in Cell and Module Levels for Thermal Uniformity in Battery Packs. **2023**, 145, 0
- 34 Importance of Thermal Transport for the Design of Solid-State Battery Materials. **2022**, 1, 0
- 33 In situ topotactic preparation of porous plate-like $\text{Li}_2\text{ZnTi}_3\text{O}_8$ as the lithium-ion batteries anode for enhancing electrochemical reaction kinetics and Li^+ storage. **2022**, 141758 0
- 32 Investigation on Li-ion Battery Pack Topologies for Optimum Thermal Management of Electric Vehicles. 0
- 31 Investigate the effect of a novel inlet header on the thermal and hydraulic performance of a liquid cold plate used for cooling the Li-ion battery cell of electric vehicles. 095440702211507 0
- 30 A review of thermal management methods for electric vehicle batteries based on heat pipes and PCM. **2023**, 45, 0
- 29 Performance management of EV battery coupled with latent heat jacket at cell level. **2023**, 558, 232618 0
- 28 A novel strategy of thermal management system for battery energy storage system based on supercritical CO_2 . **2023**, 277, 116676 0
- 27 Experimental study on phase change material based thermal management design with adjustable fins for lithium-ion battery. **2023**, 221, 119808 1
- 26 Dynamic compression and impact analyses of the lattice structures for battery safety. 095440702211498 0
- 25 A comprehensive review on heat pipe based battery thermal management systems. **2023**, 120070 1
- 24 A review on the performance of oscillating heat pipe used in battery cooling. 0
- 23 Effects of flow direction in mini U-channel cold plates on thermal performance of a prismatic LiMn_2O_4 battery. 0
- 22 Thermal Management Techniques for Lithium-Ion Batteries Based on Phase Change Materials: A Systematic Review and Prospective Recommendations. **2023**, 16, 876 0
- 21 Passive thermal management system of lithium-ion batteries employing metal foam/ pcm composite for the development of electric vehicles. **2023**, 45, 505-522 0
- 20 An improved hybrid thermal management system for prismatic Li-ion batteries integrated with mini-channel and phase change materials. **2023**, 334, 120643 1

- 19 Battery thermal management system for the cooling of Li-Ion batteries, used in electric vehicles. **2023**, ○
- 18 Impact of the number of tubes containing nanofluid flow on the melting and freezing of phase change materials in the thermal management of plate lithium-ion batteries. **2023**, 151, 464-472 ○
- 17 Temperature field prediction of lithium-ion batteries using improved local tangent space alignment. **2023**, 209, 124126 ○
- 16 The role of phase change materials in lithium-ion batteries: A brief review on current materials, thermal management systems, numerical methods, and experimental models. **2023**, 63, 107061 ○
- 15 Battery thermal management systems. **2023**, 119-160 ○
- 14 Carbon Nanotube/Hygroscopic Salt Nanocomposites with Dual-Functionality of Effective Cooling and Fire Resistance for Safe and Ultrahigh-Rate Operation of Practical Lithium-Ion Batteries. 2213846 ○
- 13 Direct-spun CNT textiles for high-performance electromagnetic interference shielding in an ultra-wide bandwidth. **2023**, 206, 166-180 ○
- 12 Numerical investigations on heat transfer enhancement and energy flow distribution for interlayer battery thermal management system using Tesla-valve mini-channel cooling. **2023**, 280, 116812 1
- 11 Experimental Investigation on Single-Phase Immersion Cooling of a Lithium-Ion Pouch-Type Battery under Various Operating Conditions. **2023**, 13, 2775 ○
- 10 Thermal management and temperature uniformity enhancement of cylindrical lithium-ion battery pack based on liquid cooling equipped with twisted tapes. **2023**, 104671 ○
- 9 Microencapsulation of polymeric phase change materials (MPCM) for thermal energy storage in industrial coating applications. **2023**, ○
- 8 Calorimetric methods and thermal management of lithium-ion batteries: A mini-review. **2023**, 2454, 012006 ○
- 7 Evolution of heat transfer in phase change material. **2023**, 249-265 ○
- 6 Recursive ARMAX-Based Global Battery SOC Estimation Model Design using Kalman Filter with Optimized Parameters by Radial Movement Optimization Method. 1-13 ○
- 5 Review on Thermal Management of Lithium-Ion Batteries for Electric Vehicles: Advances, Challenges, and Outlook. **2023**, 37, 4835-4857 ○
- 4 Investigation of the Effect of Air Inlet Position and Velocity on Battery Cooling Performance in Electric Vehicles. **2023**, 35, 116-124 ○
- 3 Mathematical Modeling of the Evaporation of a Water Drop from a Heated Surface. **2023**, 39, 5041-5055 ○
- 2 Effective Surface Modification of 2D MXene toward Thermal Energy Conversion and Management. ○

- 1 Thermal management system in electric vehicle batteries for environmental sustainability.

o