

Hengyun Zhang

List of Publications by Citations

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

37
papers

841
citations

14
h-index

29
g-index

45
ext. papers

1,262
ext. citations

5.4
avg, IF

5.2
L-index

#	Paper	IF	Citations
37	Single-phase liquid cooled microchannel heat sink for electronic packages. <i>Applied Thermal Engineering</i> , 2005 , 25, 1472-1487	5.8	111
36	Analysis of thermoelectric cooler performance for high power electronic packages. <i>Applied Thermal Engineering</i> , 2010 , 30, 561-568	5.8	107
35	Thermal analysis of conjugated cooling configurations using phase change material and liquid cooling techniques for a battery module. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 133, 827-841	4.9	80
34	Experimental investigation on the thermal behavior of cylindrical battery with composite paraffin and fin structure. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 109, 958-970	4.9	76
33	A general approach in evaluating and optimizing thermoelectric coolers. <i>International Journal of Refrigeration</i> , 2010 , 33, 1187-1196	3.8	60
32	Thermal performance of a cylindrical battery module impregnated with PCM composite based on thermoelectric cooling. <i>Energy</i> , 2019 , 188, 116048	7.9	43
31	Experimental investigation of thermal performance of large-sized battery module using hybrid PCM and bottom liquid cooling configuration. <i>Applied Thermal Engineering</i> , 2019 , 159, 113968	5.8	42
30	Numerical analysis and experimental visualization of phase change material melting process for thermal management of cylindrical power battery. <i>Applied Thermal Engineering</i> , 2018 , 128, 489-499	5.8	42
29	A review of air-cooling battery thermal management systems for electric and hybrid electric vehicles. <i>Journal of Power Sources</i> , 2021 , 501, 230001	8.9	41
28	An improved calorimetric method for characterizations of the specific heat and the heat generation rate in a prismatic lithium ion battery cell. <i>Energy Conversion and Management</i> , 2019 , 180, 724-732	10.6	37
27	Experimental determination on thermal parameters of prismatic lithium ion battery cells. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 139, 231-239	4.9	33
26	Thermal characteristics of power battery module with composite phase change material and external liquid cooling. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 156, 119820	4.9	32
25	Effect analysis on thermal profile management of a cylindrical lithium-ion battery utilizing a cellular liquid cooling jacket. <i>Energy</i> , 2021 , 220, 119725	7.9	22
24	Structural optimization of light-weight battery module based on hybrid liquid cooling with high latent heat PCM. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 163, 120495	4.9	17
23	Multi-objective optimization of a liquid cooled battery module with collaborative heat dissipation in both axial and radial directions. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 155, 119701	4.9	14
22	Lightweight liquid cooling based thermal management to a prismatic hard-cased lithium-ion battery. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 170, 120998	4.9	12
21	Experimental evaluation of a compact two-phase cooling system for high heat flux electronic packages. <i>Applied Thermal Engineering</i> , 2019 , 163, 114338	5.8	11

20	Numerical analysis and surrogate model optimization of air-cooled battery modules using double-layer heat spreading plates. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 176, 121380	4.9	10
19	Microchannel Thermal Management System With Two-Phase Flow for Power Electronics Over 500 W/cm ² Heat Dissipation. <i>IEEE Transactions on Power Electronics</i> , 2020 , 1-1	7.2	7
18	Quasi steady state method to measure thermophysical parameters of cylindrical lithium ion batteries. <i>Journal of Power Sources</i> , 2021 , 485, 229342	8.9	6
17	Effect of Surface Texturing Parameters on the Lubrication Characteristics of an Axial Piston Pump Valve Plate. <i>Lubricants</i> , 2018 , 6, 49	3.1	6
16	A calibration calorimetry method to investigate the thermal characteristics of a cylindrical lithium-ion battery. <i>International Journal of Thermal Sciences</i> , 2021 , 165, 106891	4.1	5
15	Warping simulation and experiment for panel level fan-out package 2016 ,		5
14	Experimental and numerical approach for analyzing thermal behaviors of a prismatic hard-cased lithium-ion battery. <i>Journal of Energy Storage</i> , 2021 , 35, 102313	7.8	5
13	A study on the transient heat generation rate of lithium-ion battery based on full matrix orthogonal experimental design with mixed levels. <i>Journal of Energy Storage</i> , 2021 , 36, 102446	7.8	4
12	Cross-Flow Heat Exchanger: Volume-Averaging Formulation of a Unit Cell Model and Thermal Performance Analysis. <i>Journal of Heat Transfer</i> , 2017 , 139,	1.8	1
11	Design analysis of minichannel heat sink with indented fins under impingement flow condition 2017 ,		1
10	Development and characterization of large silicon microchannel heat sink packages for thermal management of high power microelectronics modules		1
9	Thermal modeling, analysis, and design 2020 , 59-129		1
8	Air-Side Fin Geometry of a Tube-Strip Heat Exchanger for Fuel Cell Vehicles. <i>Automotive Innovation</i> , 2021 , 4, 176-188	1.7	1
7	Experimental investigations on the performance of mini-channel evaporator refrigeration system for thermal management of power batteries. <i>International Journal of Refrigeration</i> , 2021 , 130, 117-127	3.8	1
6	Thermal management of lithium-ion batteries under high ambient temperature and rapid discharging using composite PCM and liquid cooling. <i>Applied Thermal Engineering</i> , 2022 , 210, 118230	5.8	1
5	Performance Improvement of a Novel Trapezoid Air-Cooling Battery Thermal Management System for Electric Vehicles. <i>Sustainability</i> , 2022 , 14, 4975	3.6	1
4	Topology optimization of anisotropy hierarchical honeycomb acoustic metamaterials for extreme multi-broad band gaps. <i>Mechanics of Advanced Materials and Structures</i> , 1-13	1.8	1
3	Thermal performance of cylindrical battery module with both axial and radial thermal paths: Numerical simulation and thermal resistance network analysis. <i>Journal of Energy Storage</i> , 2022 , 49, 104197	7.8	0

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| 2 | Heat generation and surrogate model for large-capacity nickel-rich prismatic lithium-ion battery as against 18650 battery. <i>Journal of Loss Prevention in the Process Industries</i> , 2022 , 104783 | 3.5 | ○ |
| 1 | Surrogate models for lithium-ion battery heat generation based on orthogonal experiments by eliminating external wire connection effect. <i>Applied Thermal Engineering</i> , 2022 , 118655 | 5.8 | ○ |