Weixiong Wu

List of Publications by Year
in descending order

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19	2,702	586496 16	889612 19
papers	citations	h-index	g-index

19	19	19	1455
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Multi-objective optimization of side plates in a large format battery module to mitigate thermal runaway propagation. International Journal of Heat and Mass Transfer, 2022, 186, 122395.	2.5	19
2	Internal temperature prediction model of the cylindrical lithium-ion battery under different cooling modes. Applied Thermal Engineering, 2022, 212, 118562.	3.0	18
3	Optimization of an air-cooled battery module with novel cooling channels based on silica cooling plates. Applied Thermal Engineering, 2022, 213, 118650.	3.0	14
4	Role of natural convection and battery arrangement for phase change material based battery thermal management unit. Journal of Energy Storage, 2022, 52, 104820.	3.9	5
5	Influence of mechanical vibration on composite phase change material based thermal management system for lithium-ion battery. Journal of Energy Storage, 2022, 54, 105237.	3.9	12
6	Impact of low temperature and charge profile on the aging of lithium-ion battery: Non-invasive and post-mortem analysis. International Journal of Heat and Mass Transfer, 2021, 170, 121024.	2.5	43
7	Design and optimization of a hybrid battery thermal management system for electric vehicle based on surrogate model. International Journal of Heat and Mass Transfer, 2021, 174, 121318.	2.5	81
8	An innovative battery thermal management with thermally induced flexible phase change material. Energy Conversion and Management, 2020, 221, 113145.	4.4	138
9	A compact and lightweight liquid-cooled thermal management solution for cylindrical lithium-ion power battery pack. International Journal of Heat and Mass Transfer, 2019, 144, 118581.	2.5	167
10	Form-stable and thermally induced flexible composite phase change material for thermal energy storage and thermal management applications. Applied Energy, 2019, 236, 10-21.	5.1	251
11	Cooling efficiency improvement of air-cooled battery thermal management system through designing the flow pattern. Energy, 2019, 167, 781-790.	4.5	235
12	A critical review of battery thermal performance and liquid based battery thermal management. Energy Conversion and Management, 2019, 182, 262-281.	4.4	642
13	Lowâ€temperature reversible capacity loss and aging mechanism in lithiumâ€ion batteries for different discharge profiles. International Journal of Energy Research, 2019, 43, 243-253.	2.2	65
14	Thermal management optimization of a prismatic battery with shape-stabilized phase change material. International Journal of Heat and Mass Transfer, 2018, 121, 967-977.	2.5	133
15	Experimental investigation on the thermal performance of heat pipe-assisted phase change material based battery thermal management system. Energy Conversion and Management, 2017, 138, 486-492.	4.4	323
16	A thermal management system for rectangular LiFePO4 battery module using novel double copper mesh-enhanced phase change material plates. Energy, 2017, 141, 613-623.	4.5	93
17	Thermal optimization of composite PCM based large-format lithium-ion battery modules under extreme operating conditions. Energy Conversion and Management, 2017, 153, 22-33.	4.4	117
18	An experimental study of thermal management system using copper mesh-enhanced composite phase change materials for power battery pack. Energy, 2016, 113, 909-916.	4.5	185

#	Article	IF	Citations
19	Preparation and thermal conductivity enhancement of composite phase change materials for electronic thermal management. Energy Conversion and Management, 2015, 101, 278-284.	4.4	161