Mingyi Chen

List of Publications by Year
in descending order

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51 papers	2,024 citations	270111 25 h-index	274796 44 g-index
51 all docs	51 docs citations	51 times ranked	1120 citing authors

#	Article	IF	Citations
1	Comparative studies on the combustion characters of the lithium-ion battery electrolytes with composite flame-retardant additives. Journal of Energy Storage, 2022, 47, 103642.	3.9	7
2	Electrochemical and thermal characteristics of aging lithium-ion cells after long-term cycling at abusive-temperature environments. Chemical Engineering Research and Design, 2022, 159, 1215-1223.	2.7	23
3	What a role does the safety vent play in the safety of 18650-size lithium-ion batteries?. Chemical Engineering Research and Design, 2022, 159, 433-441.	2.7	36
4	Experimental study on the combustion characteristics of carbonate solvents under different thermal radiation by cone calorimeter. Applied Thermal Engineering, 2022, 211, 118428.	3.0	9
5	A comparative study on safety and electrochemical characteristics of cylindrical lithium-ion cells with various formats. Chemical Engineering Research and Design, 2022, 161, 126-135.	2.7	6
6	Preparation of thermally conductive composite phase change materials and its application in lithium-ion batteries thermal management. Journal of Energy Storage, 2022, 52, 104857.	3.9	20
7	Sensitivities of lithium-ion batteries with different capacities to overcharge/over-discharge. Journal of Energy Storage, 2022, 52, 104997.	3.9	7
8	Fireball modeling and thermal hazards analysis of leaked 1,1-difluoroethane in fluorine chemical industry based on FDS. Journal of Thermal Analysis and Calorimetry, 2021, 146, 355-366.	2.0	8
9	Honeycomb-inspired design of a thermal management module and its mitigation effect on thermal runaway propagation. Applied Thermal Engineering, 2021, 195, 117147.	3.0	60
10	Alleviation on battery thermal runaway propagation: Effects of oxygen level and dilution gas. Journal of Power Sources, 2021, 509, 230340.	4.0	54
11	Experimental study on combustion behavior of mixed carbonate solvents and separator used in lithium-ion batteries. Journal of Thermal Analysis and Calorimetry, 2020, 139, 1255-1264.	2.0	8
12	Comparative experimental study on combustion characteristics of typical combustible components for lithiumâ€ion battery. International Journal of Energy Research, 2020, 44, 218-228.	2.2	14
13	A comparative study on the degradation behaviors of overcharged lithiumâ€ion batteries under different ambient temperatures. International Journal of Energy Research, 2020, 44, 1078-1088.	2.2	15
14	Experimental analysis on the degradation behavior of overdischarged lithiumâ€ion battery combined with the effect of highâ€temperature environment. International Journal of Energy Research, 2020, 44, 229-241.	2.2	26
15	Experimental Analysis on the Thermal Management of Lithium-Ion Batteries Based on Phase Change Materials. Applied Sciences (Switzerland), 2020, 10, 7354.	1.3	14
16	A large-scale experimental study on the thermal failure propagation behaviors of primary lithium batteries. Journal of Energy Storage, 2020, 31, 101657.	3.9	18
17	Impact of high-temperature environment on the optimal cycle rate of lithium-ion battery. Journal of Energy Storage, 2020, 28, 101242.	3.9	54
18	Influence of Current Rate on the Degradation Behavior of Lithium-Ion Battery under Overcharge Condition. Journal of the Electrochemical Society, 2019, 166, A2697-A2706.	1.3	26

#	Article	IF	Citations
19	A Review on the Thermal Hazards of the Lithium-Ion Battery and the Corresponding Countermeasures. Applied Sciences (Switzerland), 2019, 9, 2483.	1.3	161
20	Impacts of Current Rates on the Degradation Behaviors of Lithium-Ion Batteries under Over-Discharge Conditions. Journal of the Electrochemical Society, 2019, 166, A3432-A3440.	1.3	23
21	Environmental pressure effects on thermal runaway and fire behaviors of lithium-ion battery with different cathodes and state of charge. Chemical Engineering Research and Design, 2019, 130, 250-256.	2.7	81
22	Data and video for the thermal and fire propagation of multiple lithium-ion batteries. Data in Brief, 2019, 26, 104379.	0.5	1
23	Comparative study on the transversal/lengthwise thermal failure propagation and heating position effect of lithium-ion batteries. Applied Energy, 2019, 255, 113761.	5.1	62
24	Alleviation of thermal runaway propagation in thermal management modules using aerogel felt coupled with flame-retarded phase change material. Energy Conversion and Management, 2019, 200, 112071.	4.4	111
25	Experimental investigation on the effect of ambient pressure on thermal runaway and fire behaviors of lithiumâ€ion batteries. International Journal of Energy Research, 2019, 43, 4898-4911.	2.2	32
26	Effects of abusive temperature environment and cycle rate on the homogeneity of lithium-ion battery. Thermochimica Acta, 2019, 676, 241-248.	1.2	17
27	Experimental investigation of thermal failure propagation in typical lithium-ion battery modules. Thermochimica Acta, 2019, 676, 205-213.	1.2	57
28	Optimization of the detailed factors in a phase-change-material module for battery thermal management. International Journal of Heat and Mass Transfer, 2019, 138, 126-134.	2.5	125
29	Influence of low temperature conditions on lithium-ion batteries and the application of an insulation material. RSC Advances, 2019, 9, 9053-9066.	1.7	55
30	Effect of High Temperature Circumstance on Lithium-Ion Battery and the Application of Phase Change Material. Journal of the Electrochemical Society, 2019, 166, A559-A567.	1.3	25
31	Fire behaviors study on 18650 batteries pack using a cone-calorimeter. Journal of Thermal Analysis and Calorimetry, 2019, 136, 2281-2294.	2.0	21
32	Fire behavior of lithium-ion battery with different states of charge induced by high incident heat fluxes. Journal of Thermal Analysis and Calorimetry, 2019, 136, 2239-2247.	2.0	47
33	Effects of heat treatment and SOC on fire behaviors of lithium-ion batteries pack. Journal of Thermal Analysis and Calorimetry, 2019, 136, 2429-2437.	2.0	23
34	Experimental investigation on the effect of ambient pressure on entrainment coefficient of pool fires. Applied Thermal Engineering, 2019, 148, 939-943.	3.0	21
35	A study on the fire behaviors of 18650 battery and batteries pack under discharge. Journal of Thermal Analysis and Calorimetry, 2019, 136, 1915-1926.	2.0	8
36	Experimental study on the thermal behaviors of lithium-ion batteries under discharge and overcharge conditions. Journal of Thermal Analysis and Calorimetry, 2018, 132, 65-75.	2.0	65

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37	A Simplified Method to Predict the Heat Release Rate of Industrial Nitrocellulose Materials. Applied Sciences (Switzerland), 2018, 8, 910.	1.3	16
38	A Simplified Analysis to Predict the Fire Hazard of Primary Lithium Battery. Applied Sciences (Switzerland), 2018, 8, 2329.	1.3	9
39	Investigation of a commercial lithium-ion battery under overcharge/over-discharge failure conditions. RSC Advances, 2018, 8, 33414-33424.	1.7	98
40	Thermal Failure Propagation in Lithium-Ion Battery Modules with Various Shapes. Applied Sciences (Switzerland), 2018, 8, 1263.	1.3	29
41	An Experimental Study on the Thermal Failure Propagation in Lithium-Ion Battery Pack. Journal of the Electrochemical Society, 2018, 165, A2184-A2193.	1.3	93
42	An experimental study about the effect of arrangement on the fire behaviors of lithium-ion batteries. Journal of Thermal Analysis and Calorimetry, 2017, 129, 181-188.	2.0	33
43	Study of the fire hazards of lithium-ion batteries at different pressures. Applied Thermal Engineering, 2017, 125, 1061-1074.	3.0	107
44	Investigation into the Fire Hazards of Lithium-Ion Batteries under Overcharging. Applied Sciences (Switzerland), 2017, 7, 1314.	1.3	55
45	Impacts of ceiling height on the combustion behaviors of pool fires beneath a ceiling. Journal of Thermal Analysis and Calorimetry, 2016, 126, 881-889.	2.0	26
46	Combustion characteristics of primary lithium battery at two altitudes. Journal of Thermal Analysis and Calorimetry, 2016, 124, 865-870.	2.0	23
47	Experimental Study on the Combustion Characteristics of Primary Lithium Batteries Fire. Fire Technology, 2016, 52, 365-385.	1.5	53
48	Investigation on the thermal hazards of 18650 lithium ion batteries by fire calorimeter. Journal of Thermal Analysis and Calorimetry, 2015, 122, 755-763.	2.0	104
49	Combustion calorimetry of carbonate electrolytes used in lithium ion batteries. Journal of Fire Sciences, 2015, 33, 22-36.	0.9	27
50	Impact of Charging and Charging Rate on Thermal Runaway Behaviors of Lithium-Ion Cells. Journal of the Electrochemical Society, 0, , .	1.3	9
51	Study on topographic, electrochemical, and safety characteristics of lithiumâ€ion cells after longâ€term storage at abusiveâ€temperature environments. International Journal of Energy Research, 0, , .	2.2	2