

# Qingsong Wang

## List of Publications by Year in descending order

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206  
papers

12,787  
citations

30070

54  
h-index

30922

102  
g-index

208  
all docs

208  
docs citations

208  
times ranked

6432  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal runaway caused fire and explosion of lithium ion battery. Journal of Power Sources, 2012, 208, 210-224.	7.8	2,052
2	A review of lithium ion battery failure mechanisms and fire prevention strategies. Progress in Energy and Combustion Science, 2019, 73, 95-131.	31.2	832
3	Progress of enhancing the safety of lithium ion battery from the electrolyte aspect. Nano Energy, 2019, 55, 93-114.	16.0	533
4	Thermal degradation characteristics of rigid polyurethane foam and the volatile products analysis with TG-FTIR-MS. Polymer Degradation and Stability, 2013, 98, 2687-2696.	5.8	326
5	Thermal behavior and failure mechanism of lithium ion cells during overcharge under adiabatic conditions. Applied Energy, 2016, 182, 464-474.	10.1	197
6	Study of the fire behavior of high-energy lithium-ion batteries with full-scale burning test. Journal of Power Sources, 2015, 285, 80-89.	7.8	186
7	Thermal Behavior of Lithiated Graphite with Electrolyte in Lithium-Ion Batteries. Journal of the Electrochemical Society, 2006, 153, A329.	2.9	183
8	Thermal behaviour analysis of lithium-ion battery at elevated temperature using deconvolution method. Applied Energy, 2014, 129, 261-273.	10.1	179
9	Experimental and numerical study on a novel hybrid battery thermal management system integrated forced-air convection and phase change material. Energy Conversion and Management, 2019, 195, 1371-1381.	9.2	173
10	Failure mechanism of the lithium ion battery during nail penetration. International Journal of Heat and Mass Transfer, 2018, 122, 1103-1115.	4.8	172
11	Experimental and modeling analysis of thermal runaway propagation over the large format energy storage battery module with Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> anode. Applied Energy, 2016, 183, 659-673.	10.1	169
12	Experimental investigation on the thermal runaway and its propagation in the large format battery module with Li(Ni <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> )O <sub>2</sub> as cathode. Journal of Hazardous Materials, 2019, 375, 241-254.	12.4	169
13	Boosting Potassium Storage Performance of the Cu <sub>2</sub> S Anode via Morphology Engineering and Electrolyte Chemistry. ACS Nano, 2020, 14, 6024-6033.	14.6	156
14	Thermal stability of LiPF <sub>6</sub> /EC+DEC electrolyte with charged electrodes for lithium ion batteries. Thermochimica Acta, 2005, 437, 12-16.	2.7	153
15	Numerical study on the thermal performance of a composite board in battery thermal management system. Applied Thermal Engineering, 2016, 106, 131-140.	6.0	132
16	Aging mechanisms and thermal stability of aged commercial 18650 lithium ion battery induced by slight overcharging cycling. Journal of Power Sources, 2020, 445, 227263.	7.8	129
17	The effect of electrode design parameters on battery performance and optimization of electrode thickness based on the electrochemical-thermal coupling model. Sustainable Energy and Fuels, 2019, 3, 148-165.	4.9	128
18	Experimental study on the behaviors and shape changes of premixed hydrogen-air flames propagating in horizontal duct. International Journal of Hydrogen Energy, 2011, 36, 6325-6336.	7.1	120

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19	Experimental study on the application of phase change material in the dynamic cycling of battery pack system. <i>Energy Conversion and Management</i> , 2016, 128, 12-19.	9.2	115
20	An experimental study of distorted tulip flame formation in a closed duct. <i>Combustion and Flame</i> , 2013, 160, 1725-1728.	5.2	113
21	Water cooling based strategy for lithium ion battery pack dynamic cycling for thermal management system. <i>Applied Thermal Engineering</i> , 2018, 132, 575-585.	6.0	113
22	Comparison analysis on the thermal runaway of lithium-ion battery under two heating modes. <i>Journal of Hazardous Materials</i> , 2018, 344, 733-741.	12.4	109
23	The combustion behavior of large scale lithium titanate battery. <i>Scientific Reports</i> , 2015, 5, 7788.	3.3	104
24	Inhibition effect of different interstitial materials on thermal runaway propagation in the cylindrical lithium-ion battery module. <i>Applied Thermal Engineering</i> , 2019, 153, 39-50.	6.0	97
25	Modelling electro-thermal response of lithium-ion batteries from normal to abuse conditions. <i>Applied Energy</i> , 2017, 205, 1327-1344.	10.1	94
26	Self-heating reaction and thermal runaway criticality of the lithium ion battery. <i>International Journal of Heat and Mass Transfer</i> , 2020, 149, 119178.	4.8	91
27	Battery thermal management system based on the forced-air convection: A review. <i>ETransportation</i> , 2021, 7, 100097.	14.8	88
28	Thermal runaway hazards investigation on 18650 lithium-ion battery using extended volume accelerating rate calorimeter. <i>Journal of Energy Storage</i> , 2020, 28, 101232.	8.1	86
29	Experimental study on the characteristics of horizontal flame spread over XPS surface on plateau. <i>Journal of Hazardous Materials</i> , 2011, 189, 34-39.	12.4	82
30	Experimental Analysis of Thermal Runaway Propagation Risk within 18650 Lithium-Ion Battery Modules. <i>Journal of the Electrochemical Society</i> , 2018, 165, A1925-A1934.	2.9	81
31	Combustion behavior of lithium iron phosphate battery induced by external heat radiation. <i>Journal of Loss Prevention in the Process Industries</i> , 2017, 49, 961-969.	3.3	80
32	Numerical study on tab dimension optimization of lithium-ion battery from the thermal safety perspective. <i>Applied Thermal Engineering</i> , 2018, 142, 148-165.	6.0	79
33	Catalytic effects of inorganic acids on the decomposition of ammonium nitrate. <i>Journal of Hazardous Materials</i> , 2005, 127, 204-210.	12.4	77
34	Experimental investigation on thermal runaway propagation of large format lithium ion battery modules with two cathodes. <i>International Journal of Heat and Mass Transfer</i> , 2021, 172, 121077.	4.8	76
35	Experimental study on thermal runaway and its propagation in the large format lithium ion battery module with two electrical connection modes. <i>Energy</i> , 2020, 205, 117906.	8.8	75
36	Experimental study on a novel safety strategy of lithium-ion battery integrating fire suppression and rapid cooling. <i>Journal of Energy Storage</i> , 2020, 28, 101185.	8.1	73

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37	Comprehensively analysis the failure evolution and safety evaluation of automotive lithium ion battery. <i>ETransportation</i> , 2021, 10, 100140.	14.8	73
38	4-Isopropyl Phenyl Diphenyl Phosphate as Flame-Retardant Additive for Lithium-Ion Battery Electrolyte. <i>Electrochemical and Solid-State Letters</i> , 2005, 8, A467.	2.2	71
39	Thermal runaway and fire behavior investigation of lithium ion batteries using modified cone calorimeter. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 135, 2879-2889.	3.6	70
40	Thermal runaway and fire behaviors of a 300 Ah lithium ion battery with LiFePO <sub>4</sub> as cathode. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 139, 110717.	16.4	70
41	Micro calorimeter study on the thermal stability of lithium-ion battery electrolytes. <i>Journal of Loss Prevention in the Process Industries</i> , 2006, 19, 561-569.	3.3	69
42	Heat transfer in the dynamic cycling of lithium-titanate batteries. <i>International Journal of Heat and Mass Transfer</i> , 2016, 93, 896-905.	4.8	69
43	Fault detection of the connection of lithium-ion power batteries in series for electric vehicles based on statistical analysis. <i>Energy</i> , 2018, 164, 745-756.	8.8	68
44	Experimental and numerical methods to investigate the overcharge caused lithium plating for lithium ion battery. <i>Energy Storage Materials</i> , 2020, 32, 91-104.	18.0	68
45	Understanding of Li plating on graphite electrode: detection, quantification and mechanism revelation. <i>Energy Storage Materials</i> , 2021, 41, 209-221.	18.0	68
46	The Efficiency of Heptafluoropropane Fire Extinguishing Agent on Suppressing the Lithium Titanate Battery Fire. <i>Fire Technology</i> , 2016, 52, 387-396.	3.0	67
47	Electrochemical performance and thermal stability analysis of LiNi Co Mn O <sub>2</sub> cathode based on a composite safety electrolyte. <i>Journal of Hazardous Materials</i> , 2018, 351, 260-269.	12.4	66
48	Experimental and modeling analysis of jet flow and fire dynamics of 18650-type lithium-ion battery. <i>Applied Energy</i> , 2021, 281, 116054.	10.1	66
49	Experimental investigation on the characteristics of thermal runaway and its propagation of large-format lithium ion batteries under overcharging and overheating conditions. <i>Energy</i> , 2021, 233, 121103.	8.8	65
50	Experimental study on thermal runaway and fire behaviors of large format lithium iron phosphate battery. <i>Applied Thermal Engineering</i> , 2021, 192, 116949.	6.0	63
51	Experimental study on thermal runaway risk of 18650 lithium ion battery under side-heating condition. <i>Journal of Loss Prevention in the Process Industries</i> , 2019, 61, 122-129.	3.3	62
52	Experimental study of the effectiveness of three kinds of extinguishing agents on suppressing lithium-ion battery fires. <i>Applied Thermal Engineering</i> , 2020, 171, 115076.	6.0	61
53	An experimental study of premixed hydrogen/air flame propagation in a partially open duct. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 6233-6241.	7.1	60
54	Experimental study on the efficiency of dodecafluoro-2-methylpentan-3-one on suppressing lithium-ion battery fires. <i>RSC Advances</i> , 2018, 8, 42223-42232.	3.6	59

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55	Kinetics and volatile products of thermal degradation of building insulation materials. <i>Thermochimica Acta</i> , 2012, 547, 120-125.	2.7	58
56	Thermal Stability of Delithiated $\text{LiMn}_2\text{O}_4$ with Electrolyte for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2007, 154, A263.	2.9	57
57	Thermal Stabilities of Some Lithium Salts and Their Electrolyte Solutions With and Without Contact to a $\text{LiFePO}_4$ Electrode. <i>Journal of the Electrochemical Society</i> , 2010, 157, A1170.	2.9	57
58	Non-dimensional analysis of the criticality of Li-ion battery thermal runaway behavior. <i>Journal of Hazardous Materials</i> , 2019, 369, 268-278.	12.4	56
59	A Thermal Runaway Simulation on a Lithium Titanate Battery and the Battery Module. <i>Energies</i> , 2015, 8, 490-500.	3.1	54
60	Experimental and numerical study on premixed hydrogen/air flame propagation in a horizontal rectangular closed duct. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 1367-1376.	7.1	53
61	Thermal analysis of nickel cobalt lithium manganese with varying nickel content used for lithium ion batteries. <i>Thermochimica Acta</i> , 2017, 655, 176-180.	2.7	53
62	Probing the cooling effectiveness of phase change materials on lithium-ion battery thermal response under overcharge condition. <i>Applied Thermal Engineering</i> , 2018, 132, 521-530.	6.0	51
63	Overcharge Behavior and Early Warning Analysis of $\text{LiNi}_{0.5}\text{Co}_{0.2}\text{Mn}_{0.3}\text{O}_2/\text{C}$ Lithium-Ion Battery with High Capacity. <i>Journal of the Electrochemical Society</i> , 2019, 166, A1055-A1062.	2.9	50
64	Experimental study on spontaneous ignition and flame propagation of high-pressure hydrogen release via a tube into air. <i>Fuel</i> , 2016, 181, 811-819.	6.4	49
65	Experimental study on the synergistic effect of gas extinguishing agents and water mist on suppressing lithium-ion battery fires. <i>Journal of Energy Storage</i> , 2020, 32, 101801.	8.1	48
66	Prediction of the critical condition for flame acceleration over wood surface with different sample orientations. <i>Combustion and Flame</i> , 2012, 159, 2999-3002.	5.2	47
67	The critical characteristics and transition process of lithium-ion battery thermal runaway. <i>Energy</i> , 2020, 213, 119082.	8.8	47
68	Study on the influence of moisture content on thermal stability of propellant. <i>Journal of Hazardous Materials</i> , 2009, 168, 536-541.	12.4	46
69	Thermal runaway and fire behaviors of lithium iron phosphate battery induced by over heating. <i>Journal of Energy Storage</i> , 2020, 31, 101714.	8.1	46
70	Refined study on lithium ion battery combustion in open space and a combustion chamber. <i>Chemical Engineering Research and Design</i> , 2020, 139, 133-146.	5.6	46
71	Effects of altitude and sample width on the characteristics of horizontal flame spread over wood sheets. <i>Fire Safety Journal</i> , 2012, 51, 120-125.	3.1	45
72	Progress on the research of fire behavior and fire protection of lithium ion battery. <i>Fire Safety Journal</i> , 2021, 120, 103119.	3.1	43

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73	Dynamic three-dimensional stress prediction of window glass under thermal loading. <i>International Journal of Thermal Sciences</i> , 2012, 59, 152-160.	4.9	42
74	Experimental investigation of water spray on suppressing lithium-ion battery fires. <i>Fire Safety Journal</i> , 2021, 120, 103117.	3.1	42
75	Effect of sulfites on the performance of LiBOB/ $\beta$ -butyrolactone electrolytes. <i>Journal of Power Sources</i> , 2011, 196, 776-783.	7.8	41
76	Thermal response of lithium-ion battery during charging and discharging under adiabatic conditions. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 124, 417-428.	3.6	41
77	Experimental investigation on the cooling and suppression effects of liquid nitrogen on the thermal runaway of lithium ion battery. <i>Journal of Power Sources</i> , 2021, 495, 229795.	7.8	41
78	Effects of sample width and inclined angle on flame spread across expanded polystyrene surface in plateau and plain environments. <i>Journal of Thermoplastic Composite Materials</i> , 2015, 28, 111-127.	4.2	40
79	A new method to explore thermal and venting behavior of lithium-ion battery thermal runaway. <i>Journal of Power Sources</i> , 2021, 486, 229357.	7.8	40
80	Effects of solvents and salt on the thermal stability of charged LiCoO <sub>2</sub> . <i>Materials Research Bulletin</i> , 2009, 44, 543-548.	5.2	39
81	Fracture behavior of a four-point fixed glass curtain wall under fire conditions. <i>Fire Safety Journal</i> , 2014, 67, 24-34.	3.1	39
82	A self-cooling and flame-retardant electrolyte for safer lithium ion batteries. <i>Sustainable Energy and Fuels</i> , 2018, 2, 1323-1331.	4.9	39
83	Heating power effect on the thermal runaway characteristics of large-format lithium ion battery with Li(Ni <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> )O <sub>2</sub> as cathode. <i>Energy</i> , 2022, 239, 121885.	8.8	39
84	Experimental study on combustion behavior and fire extinguishing of lithium iron phosphate battery. <i>Journal of Energy Storage</i> , 2020, 30, 101532.	8.1	39
85	An experimental study on shock waves and spontaneous ignition produced by pressurized hydrogen release through a tube into atmosphere. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 8281-8289.	7.1	38
86	The Efficiency of Dodecafluoro-2-Methylpentan-3-One on Suppressing the Lithium Ion Battery Fire. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2018, 15, .	2.1	38
87	Numerical modeling on thermal runaway triggered by local overheating for lithium iron phosphate battery. <i>Applied Thermal Engineering</i> , 2021, 192, 116928.	6.0	38
88	Insight into the structural evolution and thermal behavior of LiNi <sub>0.8</sub> Co <sub>0.1</sub> Mn <sub>0.1</sub> O <sub>2</sub> cathode under deep charge. <i>Journal of Energy Chemistry</i> , 2022, 65, 424-432.	12.9	38
89	Thermal safety study of Li-ion batteries under limited overcharge abuse based on coupled electrochemical-thermal model. <i>International Journal of Energy Research</i> , 2020, 44, 3607-3625.	4.5	37
90	Effects of solvents and salt on the thermal stability of lithiated graphite used in lithium ion battery. <i>Journal of Hazardous Materials</i> , 2009, 167, 1209-1214.	12.4	36

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91	Numerical study on thermal characteristics comparison between charge and discharge process for lithium ion battery. International Journal of Heat and Mass Transfer, 2020, 162, 120319.	4.8	36
92	Explosion hazards study of grid-scale lithium-ion battery energy storage station. Journal of Energy Storage, 2021, 42, 102987.	8.1	36
93	Experimental investigation on intermittent spray cooling and toxic hazards of lithium-ion battery thermal runaway. Energy Conversion and Management, 2022, 252, 115091.	9.2	36
94	Heat generation and thermal runaway of lithium-ion battery induced by slight overcharging cycling. Journal of Power Sources, 2022, 526, 231136.	7.8	36
95	Catastrophe analysis of cylindrical lithium ion battery. Nonlinear Dynamics, 2010, 61, 763-772.	5.2	35
96	Improved thermal stability of lithium ion battery by using cresyl diphenyl phosphate as an electrolyte additive. Journal of Power Sources, 2010, 195, 7457-7461.	7.8	35
97	Investigation of thermal breakage and heat transfer in single, insulated and laminated glazing under fire conditions. Applied Thermal Engineering, 2017, 125, 662-672.	6.0	35
98	Dynamic overcharge investigations of lithium ion batteries with different state of health. Journal of Power Sources, 2021, 507, 230262.	7.8	35
99	In-depth study on diffusion of oxygen vacancies in Li(NixCoyMnz)O2 cathode materials under thermal induction. Energy Storage Materials, 2022, 47, 51-60.	18.0	35
100	Enhancing the thermal stability of LiCoO2 electrode by 4-isopropyl phenyl diphenyl phosphate in lithium ion batteries. Journal of Power Sources, 2006, 162, 1363-1366.	7.8	34
101	Numerical study on fire response of glass facades in different installation forms. Construction and Building Materials, 2014, 61, 172-180.	7.2	34
102	Safer Triethyl-Phosphate-Based Electrolyte Enables Nonflammable and High-Temperature Endurance for a Lithium Ion Battery. ACS Applied Energy Materials, 2020, 3, 1719-1729.	5.1	34
103	Analysis of gas release during the process of thermal runaway of lithium-ion batteries with three different cathode materials. Journal of Energy Storage, 2022, 50, 104302.	8.1	34
104	Experimental study on critical breaking stress of float glass under elevated temperature. Materials & Design, 2014, 60, 41-49.	5.1	33
105	Boosting potassium storage performance via construction of NbSe2-based misfit layered chalcogenides. Energy Storage Materials, 2021, 39, 265-270.	18.0	33
106	Experimental investigation on thermal runaway propagation of 18,650 lithium-ion battery modules with two cathode materials at low pressure. Energy, 2022, 251, 123925.	8.8	33
107	Experimental study on the thermal runaway and fire behavior of LiNi0.8Co0.1Mn0.1O2 battery in open and confined spaces. Chemical Engineering Research and Design, 2022, 158, 711-726.	5.6	32
108	Spontaneous Combustion Prediction of Coal by C80 and ARC Techniques. Energy & Fuels, 2009, 23, 4871-4876.	5.1	31

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109	Experimental study on the characteristic stages of premixed hydrogen-air flame propagation in a horizontal rectangular closed duct. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 12028-12038.	7.1	31
110	Numerical study on lithium titanate battery thermal response under adiabatic condition. <i>Energy Conversion and Management</i> , 2015, 92, 184-193.	9.2	31
111	Fracture behavior of framing coated glass curtain walls under fire conditions. <i>Fire Safety Journal</i> , 2015, 75, 45-58.	3.1	31
112	The efficiency and toxicity of dodecafluoro-2-methylpentan-3-one in suppressing lithium-ion battery fire. <i>Journal of Energy Chemistry</i> , 2022, 65, 532-540.	12.9	31
113	Capacity fading mechanisms and state of health prediction of commercial lithium-ion battery in total lifespan. <i>Journal of Energy Storage</i> , 2022, 46, 103910.	8.1	31
114	Experimental study on thermal runaway of fully charged and overcharged lithium-ion batteries under adiabatic and side-heating test. <i>Journal of Energy Storage</i> , 2021, 38, 102519.	8.1	30
115	The experimental and numerical investigation on a hybrid battery thermal management system based on forced-air convection and internal finned structure. <i>Applied Thermal Engineering</i> , 2021, 195, 117212.	6.0	30
116	Thermal Shock Effect on the Glass Thermal Stress Response and Crack Propagation. <i>Procedia Engineering</i> , 2013, 62, 717-724.	1.2	29
117	Experimental study of intermittent spray cooling on suppression for lithium iron phosphate battery fires. <i>ETransportation</i> , 2022, 11, 100142.	14.8	29
118	Flame spread over the surface of thermal insulation materials in different environments. <i>Science Bulletin</i> , 2011, 56, 1617-1622.	1.7	28
119	Maximum temperature to withstand water film for tempered glass exposed to fire. <i>Construction and Building Materials</i> , 2014, 57, 15-23.	7.2	28
120	Capacity fading and thermal stability of LiNi Co Mn O <sub>2</sub> /graphite battery after overcharging. <i>Journal of Energy Storage</i> , 2020, 29, 101397.	8.1	28
121	Experimental and numerical study of premixed flame propagation in a closed duct with a 90° curved section. <i>International Journal of Heat and Mass Transfer</i> , 2013, 66, 818-822.	4.8	27
122	Precise in-situ and ex-situ study on thermal behavior of LiNi <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> O <sub>2</sub> /graphite coin cell: From part to the whole cell. <i>Journal of Energy Chemistry</i> , 2021, 54, 332-341.	12.9	27
123	The thermal runaway analysis on LiFePO <sub>4</sub> electrical energy storage packs with different venting areas and void volumes. <i>Applied Energy</i> , 2022, 313, 118767.	10.1	27
124	Thermal stability of LiPF <sub>6</sub> /EC + DMC + EMC electrolyte for lithium ion batteries. <i>Rare Metals</i> , 2006, 25, 94-99.	7.1	26
125	C80 Calorimeter Studies of the Thermal Behavior of LiPF <sub>6</sub> Solutions. <i>Journal of Solution Chemistry</i> , 2006, 35, 179-189.	1.2	26
126	Experimental Study on Characteristic Parameters of Coal Spontaneous Combustion. <i>Procedia Engineering</i> , 2013, 62, 1081-1086.	1.2	26



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127	Full-Scale Experimental Study on the Combustion Behavior of Lithium Ion Battery Pack Used for Electric Vehicle. <i>Fire Technology</i> , 2020, 56, 2545-2564.	3.0	26
128	Transition-metal redox evolution and its effect on thermal stability of LiNi Co Mn O <sub>2</sub> based on synchrotron soft X-ray absorption spectroscopy. <i>Journal of Energy Chemistry</i> , 2021, 59, 446-454.	12.9	26
129	Slight overcharging cycling failure of commercial lithium-ion battery induced by the jelly roll destruction. <i>Chemical Engineering Research and Design</i> , 2022, 160, 695-703.	5.6	26
130	Study on the kinetics properties of lithium hexafluorophosphate thermal decomposition reaction. <i>Solid State Ionics</i> , 2006, 177, 137-140.	2.7	25
131	A stochastic analysis of glass crack initiation under thermal loading. <i>Applied Thermal Engineering</i> , 2014, 67, 447-457.	6.0	25
132	An optimal multistage charge strategy for commercial lithium ion batteries. <i>Sustainable Energy and Fuels</i> , 2018, 2, 1726-1736.	4.9	25
133	Three-dimensional layered electrochemical-thermal model for a lithium-ion pouch cell Part II. The effect of units number on the performance under adiabatic condition during the discharge. <i>International Journal of Heat and Mass Transfer</i> , 2020, 148, 119082.	4.8	25
134	Thermal Runaway Behavior of Lithium Iron Phosphate Battery During Penetration. <i>Fire Technology</i> , 2020, 56, 2405-2426.	3.0	25
135	Effect of metal wire mesh on premixed H <sub>2</sub> /air flame quenching behaviors in a closed tube. <i>Chemical Engineering Research and Design</i> , 2021, 146, 770-778.	5.6	25
136	Experimental investigation on shock waves generated by pressurized gas release through a tube. <i>Journal of Loss Prevention in the Process Industries</i> , 2015, 36, 39-44.	3.3	24
137	An investigation on expansion behavior of lithium ion battery based on the thermal-mechanical coupling model. <i>Journal of Cleaner Production</i> , 2020, 274, 122643.	9.3	24
138	Effect of single-layer wire mesh on premixed methane/air flame dynamics in a closed pipe. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 32664-32675.	7.1	24
139	An experimental-based Domino prediction model of thermal runaway propagation in 18,650 lithium-ion battery modules. <i>International Journal of Heat and Mass Transfer</i> , 2021, 181, 122024.	4.8	24
140	Enhancing the safety of lithium ion batteries by 4-isopropyl phenyl diphenyl phosphate. <i>Materials Letters</i> , 2007, 61, 3338-3340.	2.6	23
141	Cresyl diphenyl phosphate effect on the thermal stabilities and electrochemical performances of electrodes in lithium ion battery. <i>Journal of Power Sources</i> , 2011, 196, 5960-5965.	7.8	23
142	A Three-Dimensional Electrochemical-Mechanical Model at the Particle Level for Lithium-Ion Battery. <i>Journal of the Electrochemical Society</i> , 2019, 166, A3319-A3331.	2.9	23
143	Experimental study of methane addition effect on shock wave propagation, self-ignition and flame development during high-pressure hydrogen sudden discharge from a tube. <i>Fuel</i> , 2020, 277, 118217.	6.4	23
144	Experimental study of the cooling effect of water mist on 18650 lithium-ion battery at different initial temperatures. <i>Chemical Engineering Research and Design</i> , 2022, 157, 156-166.	5.6	23

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145	Heat transfer effects on accelerating rate calorimetry of the thermal runaway of Lithium-ion batteries. <i>Chemical Engineering Research and Design</i> , 2022, 162, 684-693.	5.6	23
146	Fault diagnosis of external soft-short circuit for series connected lithium-ion battery pack based on modified dual extended Kalman filter. <i>Journal of Energy Storage</i> , 2021, 41, 102902.	8.1	22
147	Optimized Cycle and Safety Performance of Lithium-Metal Batteries with the Sustained-Release Effect of Nano CaCO <sub>3</sub> . <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	22
148	The effect of mass ratio of electrolyte and electrodes on the thermal stabilities of electrodes used in lithium ion battery. <i>Thermochimica Acta</i> , 2011, 517, 16-23.	2.7	21
149	Study on spontaneous combustion risk of cotton using a micro-calorimeter technique. <i>Industrial Crops and Products</i> , 2013, 50, 383-390.	5.2	21
150	Development of a dynamic model for crack propagation in glazing system under thermal loading. <i>Fire Safety Journal</i> , 2014, 63, 113-124.	3.1	21
151	Effects of altitude and sample orientation on heat transfer for flame spread over polystyrene foams. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015, 121, 641-650.	3.6	20
152	A transportation-location problem model for pedestrian evacuation in chemical industrial parks disasters. <i>Journal of Loss Prevention in the Process Industries</i> , 2015, 33, 29-38.	3.3	20
153	Experimental study of spontaneous ignition and non-premixed turbulent combustion behavior following pressurized hydrogen release through a tube with local enlargement. <i>Journal of Loss Prevention in the Process Industries</i> , 2017, 49, 814-821.	3.3	19
154	Experimental and numerical study on penetration-induced internal short-circuit of lithium-ion cell. <i>Applied Thermal Engineering</i> , 2020, 171, 115082.	6.0	19
155	Influence of fire location on the thermal performance of glass façades. <i>Applied Thermal Engineering</i> , 2016, 106, 438-442.	6.0	18
156	Comparison of the thermal decomposition kinetics for charged LiMn <sub>2</sub> O <sub>4</sub> by TG and C80 methods. <i>Journal of Alloys and Compounds</i> , 2009, 468, 477-481.	5.5	17
157	The effect of glass panel dimension on the fire response of glass façades. <i>Construction and Building Materials</i> , 2018, 181, 588-597.	7.2	17
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