

Qiangling Duan

List of Publications by Year in descending order

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83
papers

2,882
citations

126708

33
h-index

214527

47
g-index

83
all docs

83
docs citations

83
times ranked

950
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental investigation on the thermal runaway and its propagation in the large format battery module with Li(Ni _{1/3} Co _{1/3} Mn _{1/3})O ₂ as cathode. <i>Journal of Hazardous Materials</i> , 2019, 375, 241-254.	6.5	169
2	Aging mechanisms and thermal stability of aged commercial 18650 lithium ion battery induced by slight overcharging cycling. <i>Journal of Power Sources</i> , 2020, 445, 227263.	4.0	129
3	Premixed flame propagation in hydrogen explosions. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 81, 1988-2001.	8.2	123
4	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.	2.5	76
5	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.	3.9	73
6	Thermal runaway and fire behaviors of a 300 Ah lithium ion battery with LiFePO ₄ as cathode. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 139, 110717.	8.2	70
7	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.	4.5	68
8	The Efficiency of Heptafluoropropane Fire Extinguishing Agent on Suppressing the Lithium Titanate Battery Fire. <i>Fire Technology</i> , 2016, 52, 387-396.	1.5	67
9	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.	3.0	61
10	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.	3.8	60
11	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.	1.7	59
12	Experimental investigation of spontaneous ignition and flame propagation at pressurized hydrogen release through tubes with varying cross-section. <i>Journal of Hazardous Materials</i> , 2016, 320, 18-26.	6.5	54
13	Effects of ignition location on premixed hydrogen/air flame propagation in a closed combustion tube. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 8557-8563.	3.8	50
14	Theoretical and experimental study on the effect of nitrogen content on the thermal characteristics of nitrocellulose under low heating rates. <i>Cellulose</i> , 2019, 26, 763-776.	2.4	50
15	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.	3.4	49
16	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.	3.9	48
17	Experimental study on flow characteristics and spontaneous ignition produced by pressurized hydrogen release through an Omega-shaped tube into atmosphere. <i>Fuel</i> , 2016, 184, 770-779.	3.4	47
18	Effects of obstacles inside the tube on the shock wave propagation and spontaneous ignition of high-pressure hydrogen. <i>Fuel</i> , 2019, 236, 1586-1594.	3.4	47

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19	Effects of nitrogen content on pyrolysis behavior of nitrocellulose. <i>Fuel</i> , 2020, 264, 116853.	3.4	46
20	Thermal runaway and fire behaviors of lithium iron phosphate battery induced by over heating. <i>Journal of Energy Storage</i> , 2020, 31, 101714.	3.9	46
21	Dynamics of premixed hydrogen/air flame in a closed combustion vessel. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 12856-12864.	3.8	45
22	Effects of the geometry of downstream pipes with different angles on the shock ignition of high-pressure hydrogen during its sudden expansion. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 8382-8391.	3.8	43
23	Experimental investigation of water spray on suppressing lithium-ion battery fires. <i>Fire Safety Journal</i> , 2021, 120, 103117.	1.4	42
24	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.	4.0	41
25	An investigation of premixed flame propagation in a closed combustion duct with a 90° bend. <i>Applied Energy</i> , 2014, 134, 248-256.	5.1	40
26	Experimental study on the influence of multi-layer wire mesh on dynamics of premixed hydrogen-air flame propagation in a closed duct. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 14809-14820.	3.8	39
27	Effect of burst disk parameters on the release of high-pressure hydrogen. <i>Fuel</i> , 2019, 235, 485-494.	3.4	39
28	Experimental study on combustion behavior and fire extinguishing of lithium iron phosphate battery. <i>Journal of Energy Storage</i> , 2020, 30, 101532.	3.9	39
29	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.	3.8	38
30	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, .	1.1	38
31	Numerical modeling on thermal runaway triggered by local overheating for lithium iron phosphate battery. <i>Applied Thermal Engineering</i> , 2021, 192, 116928.	3.0	38
32	A multi criteria comprehensive evaluation approach for emergency response capacity with interval 2-tuple linguistic information. <i>Applied Soft Computing Journal</i> , 2018, 72, 419-441.	4.1	36
33	Experimental investigation on intermittent spray cooling and toxic hazards of lithium-ion battery thermal runaway. <i>Energy Conversion and Management</i> , 2022, 252, 115091.	4.4	36
34	Experimental study of pressure dynamics, spontaneous ignition and flame propagation during hydrogen release from high-pressure storage tank through 15 mm diameter tube and exhaust chamber connected to atmosphere. <i>Fuel</i> , 2016, 182, 419-427.	3.4	33
35	Experimental study on spontaneous ignition and subsequent flame development caused by high-pressure hydrogen release: Coupled effects of tube dimensions and burst pressure. <i>Fire Safety Journal</i> , 2018, 97, 44-53.	1.4	33
36	Experimental study on a comparison of typical premixed combustible gas-air flame propagation in a horizontal rectangular closed duct. <i>Journal of Hazardous Materials</i> , 2017, 327, 116-126.	6.5	32

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37	Numerical study of premixed flame dynamics in a closed tube: Effect of wall boundary condition. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 2075-2082.	2.4	32
38	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.	7.1	31
39	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.	3.9	31
40	Spontaneous ignition of high-pressure hydrogen during its sudden release into hydrogen/air mixtures. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 23558-23567.	3.8	30
41	Experimental investigation on effects of CO ₂ additions on spontaneous ignition of high-pressure hydrogen during its sudden release into a tube. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 7041-7048.	3.8	30
42	Experimental study of intermittent spray cooling on suppression for lithium iron phosphate battery fires. <i>ETransportation</i> , 2022, 11, 100142.	6.8	29
43	Similitude analysis and critical conditions for spontaneous ignition of hydrogen release into the atmosphere through a tube. <i>Fuel</i> , 2019, 245, 413-419.	3.4	28
44	Capacity fading and thermal stability of LiNi Co Mn O ₂ /graphite battery after overcharging. <i>Journal of Energy Storage</i> , 2020, 29, 101397.	3.9	28
45	Visualization of spontaneous ignition and flame behavior in tubes with and without obstacles during the high-pressure hydrogen release. <i>Chemical Engineering Research and Design</i> , 2021, 153, 354-362.	2.7	28
46	The thermal runaway analysis on LiFePO ₄ electrical energy storage packs with different venting areas and void volumes. <i>Applied Energy</i> , 2022, 313, 118767.	5.1	27
47	Effect of bend on premixed flame dynamics in a closed duct. <i>International Journal of Heat and Mass Transfer</i> , 2015, 88, 297-305.	2.5	26
48	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.	2.7	26
49	An optimal multistage charge strategy for commercial lithium ion batteries. <i>Sustainable Energy and Fuels</i> , 2018, 2, 1726-1736.	2.5	25
50	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.	2.5	25
51	Effect of metal wire mesh on premixed H ₂ /air flame quenching behaviors in a closed tube. <i>Chemical Engineering Research and Design</i> , 2021, 146, 770-778.	2.7	25
52	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.	1.7	24
53	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.	3.8	24
54	Numerical study on the mechanism of spontaneous ignition of high-pressure hydrogen during its sudden release into a tube. <i>Safety Science</i> , 2020, 129, 104807.	2.6	24

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55	Experimental study of shock wave propagation and its influence on the spontaneous ignition during high-pressure hydrogen release through a tube. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 22598-22607.	3.8	23
56	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.	1.3	23
57	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.	3.4	23
58	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.	2.7	23
59	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.	3.9	22
60	Experimental study on shock waves, spontaneous ignition, and flame propagation produced by pressurized hydrogen release through tubes with varying obstacle location. <i>Fuel</i> , 2021, 290, 120093.	3.4	20
61	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.	1.7	19
62	An experimental study of the effect of 2.5% methane addition on self-ignition and flame propagation during high-pressure hydrogen release through a tube. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 3381-3390.	3.8	19
63	Experimental and numerical study on penetration-induced internal short-circuit of lithium-ion cell. <i>Applied Thermal Engineering</i> , 2020, 171, 115082.	3.0	19
64	Experimental study of spontaneous ignition induced by sudden hydrogen release through tubes with different shaped cross-sections. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 23821-23831.	3.8	18
65	The experimental study on a novel integrated system with thermal management and rapid cooling for battery pack based on C6F12O spray cooling in a closed-loop. <i>Journal of Power Sources</i> , 2021, 516, 230659.	4.0	16
66	Faulty Characteristics and Identification of Increased Connecting and Internal Resistance in Parallel-Connected Lithium-Ion Battery Pack for Electric Vehicles. <i>IEEE Transactions on Vehicular Technology</i> , 2020, 69, 10797-10808.	3.9	15
67	The enhanced cooling effect of water mist with additives on inhibiting lithium ion battery thermal runaway. <i>Journal of Loss Prevention in the Process Industries</i> , 2022, 77, 104784.	1.7	15
68	Effect of ignition position on premixed hydrogen-air flame quenching behaviors under action of metal wire mesh. <i>Fuel</i> , 2021, 289, 119750.	3.4	13
69	Investigation of the thermal response and breakage mechanism of point-supported glass facade under wind load. <i>Construction and Building Materials</i> , 2018, 186, 635-643.	3.2	12
70	Experimental study on the effect of storage conditions on thermal stability of nitrocellulose. <i>Applied Thermal Engineering</i> , 2020, 180, 115871.	3.0	11
71	Investigation of the thermal performance in lithium-ion cells during polyformaldehyde nail penetration. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 145, 3255-3268.	2.0	11
72	A collaborative emergency decision making approach based on BWM and TODIM under interval 2-tuple linguistic environment. <i>International Journal of Machine Learning and Cybernetics</i> , 2022, 13, 383-405.	2.3	10

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73	Thermal response and resistance optimization of various types of point-supported glass facades. <i>Construction and Building Materials</i> , 2019, 224, 610-621.	3.2	9
74	Experimental study on the minimum explosion concentration of anthracite dust: The roles of O ₂ mole fraction, inert gas and CH ₄ addition. <i>Journal of Loss Prevention in the Process Industries</i> , 2021, 71, 104490.	1.7	9
75	Numerical simulation on the spontaneous ignition of high-pressure hydrogen release through a tube at different burst pressures. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 10431-10440.	3.8	9
76	Effects of CO addition on shock wave propagation, self-ignition, and flame development of high-pressure hydrogen release into air. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 14714-14724.	3.8	9
77	Ignition temperature and mechanism of carbonaceous dust clouds: The roles of volatile matter, CH ₄ addition, O ₂ mole fraction and diluent gas. <i>Journal of Hazardous Materials</i> , 2021, 405, 124189.	6.5	8
78	Mechanism of self-ignition and flame propagation during high-pressure hydrogen release through a rectangular tube. <i>Chemical Engineering Research and Design</i> , 2022, 164, 283-290.	2.7	8
79	Effects of nitrogen addition on the shock-induced ignition of high-pressure hydrogen release through a rectangular tube of 400Åmm in length. <i>Fuel</i> , 2022, 308, 122016.	3.4	7
80	Dynamics of premixed hydrogen-air flame propagation in the duct with pellets bed. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 15780-15792.	3.8	6
81	Study of point-supported glass breakage behavior with varying point-covered areas under thermal loading. <i>International Journal of Thermal Sciences</i> , 2018, 132, 65-75.	2.6	5
82	Experimental study on the competing effect of ceramic pellets on premixed methane-air flame propagation in a duct. <i>Journal of Loss Prevention in the Process Industries</i> , 2021, 72, 104530.	1.7	3
83	Urban Fire Risk Evaluation Based on 2-tuple AHP Taking the 8th Division with Shihezi City for Example. , 2019, , .		0