

Lizhong Yang

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

1,719
citations

279778

23
h-index

302107

39
g-index

71
all docs

71
docs citations

71
times ranked

828
citing authors

#	ARTICLE	IF	CITATIONS
1	Evacuation from a classroom considering the occupant density around exits. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2009, 388, 1921-1928.	2.6	155
2	Flame extension length and temperature profile in thermal impinging flow of buoyant round jet upon a horizontal plate. <i>Applied Thermal Engineering</i> , 2014, 73, 15-22.	6.0	95
3	A comprehensive investigation on the thermal and toxic hazards of large format lithium-ion batteries with LiFePO ₄ cathode. <i>Journal of Hazardous Materials</i> , 2020, 381, 120916.	12.4	88
4	Simulation of pedestrian counter-flow with right-moving preference. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008, 387, 3281-3289.	2.6	74
5	A floor field cellular automaton for crowd evacuation considering different walking abilities. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2015, 420, 294-303.	2.6	74
6	Observation study of pedestrian flow on staircases with different dimensions under normal and emergency conditions. <i>Safety Science</i> , 2012, 50, 1173-1179.	4.9	68
7	Occupants' behavior of going with the crowd based on cellular automata occupant evacuation model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008, 387, 3708-3718.	2.6	62
8	Occupant evacuation model based on cellular automata in fire. <i>Science Bulletin</i> , 2002, 47, 1484.	1.7	57
9	Update schemes of multi-velocity floor field cellular automaton for pedestrian dynamics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 491, 946-963.	2.6	52
10	The pyrolysis and ignition of charring materials under an external heat flux. <i>Combustion and Flame</i> , 2003, 133, 407-413.	5.2	46
11	Estimating the longitudinal maximum gas temperature attenuation of ceiling jet flows generated by strong fire plumes in an urban utility tunnel. <i>International Journal of Thermal Sciences</i> , 2019, 142, 434-448.	4.9	46
12	Experimental study on the thermal management performance of phase change material module for the large format prismatic lithium-ion battery. <i>Energy</i> , 2022, 238, 122081.	8.8	46
13	Influences of low atmospheric pressure on downward flame spread over thick PMMA slabs at different altitudes. <i>International Journal of Heat and Mass Transfer</i> , 2013, 61, 191-200.	4.8	43
14	A numerical study of thermal degradation of polymers: Surface and in-depth absorption. <i>Applied Thermal Engineering</i> , 2016, 106, 1366-1379.	6.0	43
15	Downstream radiative and convective heating from methane and propane fires with cross wind. <i>Combustion and Flame</i> , 2019, 204, 1-12.	5.2	35
16	The effect of individual tendency on crowd evacuation efficiency under inhomogeneous exit attraction using a static field modified FFCA model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2013, 392, 6090-6099.	2.6	31
17	Effect of finite dimension on downward flame spread over PMMA slabs: Experimental and theoretical study. <i>International Journal of Heat and Mass Transfer</i> , 2015, 91, 225-234.	4.8	31
18	Pyrolysis and spontaneous ignition of wood under time-dependent heat flux. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017, 125, 100-108.	5.5	31

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19	The inclination effect on CO generation and smoke movement in an inclined tunnel fire. <i>Tunnelling and Underground Space Technology</i> , 2012, 29, 78-84.	6.2	30
20	A comprehensive study on the impact of heating position on thermal runaway of prismatic lithium-ion batteries. <i>Journal of Power Sources</i> , 2022, 520, 230919.	7.8	28
21	Experimentally exploring thermal runaway propagation and prevention in the prismatic lithium-ion battery with different connections. <i>Chemical Engineering Research and Design</i> , 2022, 164, 517-527.	5.6	28
22	Estimating the two-dimensional thermal environment generated by strong fire plumes in an urban utility tunnel. <i>Chemical Engineering Research and Design</i> , 2021, 148, 737-750.	5.6	26
23	Radiation attenuation characteristics of pyrolysis volatiles of solid fuels and their effect for radiant ignition model. <i>Combustion and Flame</i> , 2010, 157, 167-175.	5.2	24
24	Experimental and theoretical study on downward flame spread over uninhibited PMMA slabs under different pressure environments. <i>Applied Thermal Engineering</i> , 2018, 136, 1-8.	6.0	24
25	Quantitative study on the thermal failure features of lithium iron phosphate batteries under varied heating powers. <i>Applied Thermal Engineering</i> , 2021, 185, 116346.	6.0	24
26	Experimental analysis of lengthwise/transversal thermal characteristics and jet flow of large-format prismatic lithium-ion battery. <i>Applied Thermal Engineering</i> , 2021, 195, 117244.	6.0	24
27	Investigating the relationship between heating temperature and thermal runaway of prismatic lithium-ion battery with LiFePO ₄ as cathode. <i>Energy</i> , 2022, 256, 124714.	8.8	23
28	Effect of speed matching on fundamental diagram of pedestrian flow. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016, 458, 31-42.	2.6	22
29	Cellular automata pedestrian movement model considering human behavior. <i>Science Bulletin</i> , 2003, 48, 1695.	1.7	21
30	Experimental study on the effect of trolley case on unidirectional pedestrian flow. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 544, 122670.	2.6	20
31	Experimental, analytical and numerical investigation on auto-ignition of thermally intermediate PMMA imposed to linear time-increasing heat flux. <i>Applied Thermal Engineering</i> , 2020, 172, 115137.	6.0	20
32	Experimental study on burning behaviors of photovoltaic panels with different coverings using a cone calorimeter. <i>Journal of Renewable and Sustainable Energy</i> , 2017, 9, .	2.0	19
33	A Multi-Scale Analysis of the Fire Problems in an Urban Utility Tunnel. <i>Energies</i> , 2019, 12, 1976.	3.1	18
34	Fatigue effect on phase transition of pedestrian movement: experiment and simulation study. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2016, 2016, 103401.	2.3	16
35	Mapping fire risk of passenger-carried fire load in metro system via floor field cellular automaton. <i>Automation in Construction</i> , 2019, 100, 61-72.	9.8	16
36	Width effects on downward flame spread over poly(methyl methacrylate) sheets. <i>Journal of Fire Sciences</i> , 2015, 33, 69-84.	2.0	15

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37	A new exploration of the fire behaviors of large format lithium ion battery. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 1243-1254.	3.6	15
38	Effect of orientation on the burning and flame characteristics of PMMA slabs under different pressure environments. <i>Applied Thermal Engineering</i> , 2019, 156, 619-626.	6.0	14
39	Ignition of polymers under exponential heat flux considering both surface and in-depth absorptions. <i>International Journal of Thermal Sciences</i> , 2020, 151, 106242.	4.9	14
40	INTERACTIONS OF PEDESTRIANS INTERLACED IN T-SHAPED STRUCTURE USING A MODIFIED MULTI-FIELD CELLULAR AUTOMATON. <i>International Journal of Modern Physics C</i> , 2013, 24, 1350024.	1.7	11
41	Impact of flat roof's integrated solar photovoltaic installation mode on building fire safety. <i>Fire and Materials</i> , 2019, 43, 936-948.	2.0	11
42	Experimental study on fire hazard of LiCoO ₂ -based lithium-ion batteries with gel electrolyte using a cone calorimeter. <i>Journal of Energy Storage</i> , 2020, 32, 101884.	8.1	11
43	Experimental and numerical study of the effect of sample orientation on the pyrolysis and ignition of wood slabs exposed to radiation. <i>Journal of Fire Sciences</i> , 2012, 30, 211-223.	2.0	10
44	Passengers' behavioral intentions towards congestion: Observational study of the entry restrictions at traffic bottleneck. <i>KSCE Journal of Civil Engineering</i> , 2017, 21, 2393-2402.	1.9	10
45	Auto-ignition of thermally thick PMMA exposed to linearly decreasing thermal radiation. <i>Combustion and Flame</i> , 2020, 216, 232-244.	5.2	10
46	Exploring the behavior of self-organized queuing for pedestrian flow through a non-service bottleneck. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2021, 562, 125186.	2.6	10
47	Experimental study on fire behaviors of flexible photovoltaic panels using a cone calorimeter. <i>Journal of Fire Sciences</i> , 2018, 36, 63-77.	2.0	9
48	Experimental study on polystyrene with intumescent flame retardants from different scale experiments. <i>Fire and Materials</i> , 2016, 40, 18-26.	2.0	8
49	Ignition risk analysis of common building material cylindrical PMMA exposed to an external irradiation with in-depth absorption. <i>Construction and Building Materials</i> , 2020, 251, 118955.	7.2	8
50	Lateral Flame Spread over PMMA Under Forced Air Flow. <i>Fire Technology</i> , 2020, 56, 801-820.	3.0	7
51	Experimental study on the effect of pool fire area and violent fuel boiling on fuel burning state evolution in compartment fire. <i>Fuel</i> , 2021, 284, 118933.	6.4	7
52	Time series study of the impact of serious fires on fire occurrence statistics in cities of Jiangsu. <i>Fire Safety Journal</i> , 2009, 44, 925-932.	3.1	6
53	Experimental Study of Fire Hazards of Thermal-Insulation Material in Diesel Locomotive: Aluminum-Polyurethane. <i>Materials</i> , 2016, 9, 168.	2.9	6
54	A study on the temperature distribution based on the smoke thermal boundary layer below ceiling in the locomotive. <i>Applied Thermal Engineering</i> , 2017, 127, 776-788.	6.0	6

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55	Correlation analysis of heat flux and fire behaviour and hazards of polycrystalline silicon photovoltaic panels. IOP Conference Series: Materials Science and Engineering, 2017, 201, 012036.	0.6	6
56	Modeling the effects of entry restriction on crowd dynamics for dual-exit bottleneck. International Journal of Modern Physics C, 2018, 29, 1850101.	1.7	6
57	Experimental Study on Thermal Runaway Process of 18650 Lithium-Ion Battery under Different Discharge Currents. Materials, 2021, 14, 4740.	2.9	6
58	Experimental Study of the Impact of Personality Traits on Occupant Exit Choice During Building Evacuation. Procedia Engineering, 2013, 62, 548-553.	1.2	5
59	Estimating Escalator vs Stairs Choice Behavior in the Presence of Entry Railing: A Field Study. KSCE Journal of Civil Engineering, 2018, 22, 5203-5214.	1.9	5
60	Ignition and burning behaviors of automobile oil in engine compartment. Journal of Thermal Analysis and Calorimetry, 2018, 132, 305-316.	3.6	5
61	Interpretation of Fire Safety Distances of a Minivan Passenger Car by Burning Behaviors Analysis. Fire Technology, 2020, 56, 1527-1553.	3.0	5
62	Pyrolysis and piloted ignition of thermally thick PMMA exposed to constant thermal radiation in cross forced airflow. Journal of Analytical and Applied Pyrolysis, 2021, 155, 105042.	5.5	5
63	Experimental study on crowd following behavior under the effect of a leader. Journal of Statistical Mechanics: Theory and Experiment, 2021, 2021, 103402.	2.3	5
64	Theoretical analysis of the backdraft phenomena induced by liquid fuel. Science Bulletin, 2006, 51, 364-368.	1.7	4
65	Experimental study on dynamics characteristic parameter of turning behavior in self-driven mechanism. Physica A: Statistical Mechanics and Its Applications, 2020, 549, 124497.	2.6	4
66	Study on the Protection Effect of Sprinklers on Glass by Fire Scale in Building Fires. Fire, 2022, 5, 100.	2.8	4
67	Experimental study on evacuation behavior with guidance under high and low urgency conditions. Safety Science, 2022, 154, 105865.	4.9	4
68	Effect of separation points on kinetic parameters in pseudo component separated stage model. Journal of Thermal Analysis and Calorimetry, 2010, 100, 599-605.	3.6	2
69	Research on the plume shape under optimal wind environment to prevent the smoke backflow and combustion gains in utility tunnel. Fire and Materials, 2020, 44, 139-151.	2.0	2
70	Numerical simulation research on the fire in cable cabin of utility tunnel with different longitudinal fire source locations. IOP Conference Series: Earth and Environmental Science, 2022, 983, 012063.	0.3	2