

Xiaolei Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

1,444
citations

279798

23
h-index

345221

36
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52
all docs

52
docs citations

52
times ranked

398
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Thermal buoyant smoke back-layering flow length in a longitudinal ventilated tunnel with ceiling extraction at difference distance from heat source. <i>Applied Thermal Engineering</i> , 2015, 78, 129-135.	6.0	87
3	Burning rate and flame tilt characteristics of radiation-controlled rectangular hydrocarbon pool fires with cross air flows in a reduced pressure. <i>Fuel</i> , 2015, 139, 18-25.	6.4	80
4	Flame extension lengths beneath an inclined ceiling induced by rectangular-source fires. <i>Combustion and Flame</i> , 2017, 176, 349-357.	5.2	80
5	Experimental study and physical analysis of flame geometry in pool fires under relatively strong cross flows. <i>Combustion and Flame</i> , 2019, 205, 422-433.	5.2	60
6	An experimental study on burning rate and flame tilt of optical-thin heptane pool fires in cross flows. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 3089-3096.	3.9	53
7	Axial temperature profile in buoyant plume of rectangular source fuel jet fire in normal- and a sub-atmospheric pressure. <i>Fuel</i> , 2014, 134, 455-459.	6.4	50
8	A re-examination of entrainment constant and an explicit model for flame heights of rectangular jet fires. <i>Combustion and Flame</i> , 2014, 161, 3000-3002.	5.2	49
9	Pool fire flame base drag behavior with cross flow in a sub-atmospheric pressure. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 3105-3112.	3.9	48
10	Flame projection distance of horizontally oriented buoyant turbulent rectangular jet fires. <i>Combustion and Flame</i> , 2017, 176, 370-376.	5.2	47
11	Flame heights and fraction of stoichiometric air entrained for rectangular turbulent jet fires in a sub-atmospheric pressure. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 2995-3002.	3.9	40
12	Facade flame height and horizontal extending distance from opening of compartment fire with external sideward wind. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 3859-3867.	3.9	40
13	Flame radiation emission from pool fires under the influence of cross airflow and ambient pressure. <i>Combustion and Flame</i> , 2019, 202, 243-251.	5.2	38
14	Flame size and volumetric heat release rate of turbulent buoyant jet diffusion flames in normal- and a sub-atmospheric pressure. <i>Fuel</i> , 2015, 150, 278-287.	6.4	35
15	An experimental study and analysis on maximum horizontal extents of buoyant turbulent diffusion flames subject to relative strong cross flows. <i>Fuel</i> , 2018, 234, 508-515.	6.4	34
16	Numerical simulation on the maximum temperature and smoke back-layering length in a tilted tunnel under natural ventilation. <i>Tunnelling and Underground Space Technology</i> , 2021, 107, 103661.	6.2	33
17	Flame heights of line-source buoyant turbulent non-premixed jets with air entrainment constraint by two parallel side walls. <i>Fuel</i> , 2017, 200, 583-589.	6.4	31
18	A new mathematical method for quantifying trajectory of buoyant line-source gaseous fuel jet diffusion flames in cross air flows. <i>Fuel</i> , 2016, 177, 107-112.	6.4	30

#	ARTICLE	IF	CITATIONS
19	Temperature profile of thermal flow underneath an inclined ceiling induced by a wall-attached fire. <i>International Journal of Thermal Sciences</i> , 2019, 141, 133-140.	4.9	30
20	An experimental study on the burning rates of n-heptane pool fires with various lip heights in cross flow. <i>Combustion and Flame</i> , 2019, 201, 93-103.	5.2	29
21	Experimental study and analysis on flame lengths induced by wall-attached fire impinging upon an inclined ceiling. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 3879-3887.	3.9	28
22	Experimental study on flame morphologic characteristics of wall attached non-premixed buoyancy driven turbulent flames. <i>Applied Energy</i> , 2019, 254, 113672.	10.1	28
23	Temperature evolution and transition inside fire compartment with an opening subject to external sideward wind. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 3869-3877.	3.9	27
24	An experimental study on flame spread over electrical wire with high conductivity copper core and controlling heat transfer mechanism under sub-atmospheric pressures. <i>International Journal of Thermal Sciences</i> , 2019, 141, 141-149.	4.9	24
25	Non-dimensional correlations on flame height and axial temperature profile of a buoyant turbulent line-source jet fire plume. <i>Journal of Fire Sciences</i> , 2014, 32, 406-416.	2.0	23
26	Turbulent jet diffusion flame length evolution with cross flows in a sub-pressure atmosphere. <i>Energy Conversion and Management</i> , 2015, 106, 703-708.	9.2	20
27	Flame base drag of pool fires with different side wall height in cross flows: A laboratory-scale experimental study and a new correlation. <i>Fuel</i> , 2016, 182, 857-863.	6.4	20
28	Experimental study of pool fire behaviors with nearby inclined surface under cross flow. <i>Chemical Engineering Research and Design</i> , 2021, 148, 93-103.	5.6	20
29	Flame interaction and tilting behavior of two tandem adjacent hydrocarbon turbulent diffusion flames in crosswind: An experimental quantification and characterization. <i>Fuel</i> , 2021, 290, 119930.	6.4	19
30	Experimental study of transitional behavior of fully developed under-ventilated compartment fire and associated facade flame height evolution. <i>Combustion and Flame</i> , 2019, 208, 235-245.	5.2	18
31	Maximum temperature of ceiling jet flow in longitudinal ventilated tunnel fires with various distances between fire source and cross-passage. <i>Tunnelling and Underground Space Technology</i> , 2021, 113, 103953.	6.2	17
32	A mathematical model for flame volume estimation based on flame height of turbulent gaseous fuel jet. <i>Energy Conversion and Management</i> , 2015, 103, 276-283.	9.2	16
33	Effect of transverse flow on flame spread and extinction over polyethylene-insulated wires. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 4727-4735.	3.9	16
34	Diffusion flame morphology with or without near-wall in cross-winds: Experiments and a correlation based on momentum-buoyancy length scale. <i>Fuel</i> , 2021, 289, 119842.	6.4	16
35	Flame morphology of horizontal jets under sub-atmospheric pressures: Experiment, dimensional analysis and an integral model. <i>Fuel</i> , 2022, 307, 121891.	6.4	16
36	Experimental study on pulsation frequency of free-, wall- and corner buoyant turbulent diffusion flames. <i>Fuel</i> , 2020, 276, 118022.	6.4	15

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37	Buoyant turbulent diffusion flame heights of free-, wall- and corner air entrainment conditions: Experiments and global model based on mirror approach. <i>Fuel</i> , 2021, 303, 121338.	6.4	15
38	Effects of cross airflow and burner distance on temperature profile and flame morphology of dual tandem pool fires. <i>Fuel</i> , 2022, 317, 123220.	6.4	15
39	An experimental investigation and scaling analysis on flame sag of pool fire in cross flow. <i>Fuel</i> , 2019, 241, 845-850.	6.4	14
40	Temperature profile of impingement flow in the corner between wall and inclined ceiling induced by gaseous fuel jet flame. <i>Fuel</i> , 2020, 259, 116232.	6.4	12
41	Experimental investigation and analysis of flame height transition and air entrainment of near-wall rectangular-source fires at various distances. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 4505-4513.	3.9	11
42	An experimental study on the effect of fire growth in a lower-floor compartment on fire evolution and facade flame ejection from an upper-floor compartment. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 3909-3917.	3.9	9
43	Experimental study on evolution of compartment fire and facade flame through an opening with the fire source attached to a backwall at different elevations. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 3919-3926.	3.9	9
44	Flame behavior from opening of a compartment with ambient back-roof wind passing through the roof: Experiments and similarity analysis. <i>Combustion and Flame</i> , 2020, 220, 312-327.	5.2	9
45	Experimental study of impinging flame structures and thermal characteristics in ceiling flow generated by fuel jet diffusion combustion with air entrainment constraint in a corner. <i>Fuel</i> , 2022, 323, 124361.	6.4	9
46	Experimental study of downward flame spread and extinction over inclined electrical wire under horizontal wind. <i>Combustion and Flame</i> , 2022, 237, 111820.	5.2	8
47	Flame lengths in two directions underneath a ceiling induced by line-source fire: An experimental study and global model. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 4561-4568.	3.9	7
48	Experimental study on tilting behavior and blow out of dual tandem jet flames under cross wind. <i>Chemical Engineering Research and Design</i> , 2022, 158, 1-9.	5.6	6
49	An experimental investigation on combustion behavior of n-heptane in ice cavities of various depths with cross airflow. <i>Fuel</i> , 2020, 262, 116464.	6.4	5
50	Cellular flame structures and thermal characteristics of axi-symmetric ceiling fires: An experimental study and scaling analysis. <i>Combustion and Flame</i> , 2021, 230, 111442.	5.2	2
51	Flame extension length beneath a horizontal eave due to excess fuel diffusion combustion outside compartment opening under ambient wind. <i>Fuel</i> , 2021, 293, 120477.	6.4	1
52	Diffusion flame side sag behavior in cross winds: Experimental investigation and scaling analysis. <i>Fuel</i> , 2022, 310, 122252.	6.4	0