Rui Yang

List of Publications by Year
in descending order

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48	762	623734	580821
papers	citations	14 h-index	25 g-index

48	48	48	483
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Experimental and numerical study on the impact and freezing process of a water droplet on a cold surface. Applied Thermal Engineering, 2018, 137, 83-92.	6.0	79
2	CHANGES OF CHEMICAL STRUCTURE AND MECHANICAL PROPERTY LEVELS DURING THERMO-OXIDATIVE AGING OF NBR. Rubber Chemistry and Technology, 2013, 86, 591-603.	1.2	75
3	Modelling the impact, spreading and freezing of a water droplet on horizontal and inclined superhydrophobic cooled surfaces. Applied Surface Science, 2017, 419, 52-62.	6.1	65
4	Source identification for unsteady atmospheric dispersion of hazardous materials using Markov Chain Monte Carlo method. International Journal of Heat and Mass Transfer, 2009, 52, 3955-3962.	4.8	42
5	Experimental study of the burning behaviors of thin-layer pool fires. Combustion and Flame, 2018, 193, 327-334.	5.2	31
6	Experimental study on the spread and burning behaviors of continuously discharge spill fires under different slopes. Journal of Hazardous Materials, 2020, 392, 122352.	12.4	30
7	Experimental study of the mass burning rate in n-Heptane pool fire under dynamic pressure. Applied Thermal Engineering, 2017, 113, 1004-1010.	6.0	29
8	Experimental study on the liquid layer spread and burning behaviors of continuous heptane spill fires. Chemical Engineering Research and Design, 2019, 122, 320-327.	5.6	27
9	Experimental Study on the Burning Characteristics of Transformer Oil Pool Fires. Energy & Fuels, 2020, 34, 4967-4976.	5.1	27
10	Numerical modeling of dam-break flood through intricate city layouts including underground spaces using GPU-based SPH method. Journal of Hydrodynamics, 2013, 25, 818-828.	3.2	26
11	Experiments investigating fuel spread behaviors for continuous spill fires on fireproof glass. Journal of Fire Sciences, 2017, 35, 80-95.	2.0	26
12	New Inverse Model for Detecting Fire-Source Location and Intensity. Journal of Thermophysics and Heat Transfer, 2010, 24, 745-755.	1.6	25
13	Factors affecting the burning rate of pool fire in a depressurization aircraft cargo compartment. Applied Thermal Engineering, 2018, 135, 350-355.	6.0	22
14	Experimental study on liquid fire behavior at different effective ceiling heights in a full-size simulated cargo compartment. Journal of Thermal Analysis and Calorimetry, 2018, 133, 1617-1626.	3.6	18
15	Influence of depressurized environment on the fire behaviour in a dynamic pressure cabin. Applied Thermal Engineering, 2017, 125, 972-977.	6.0	17
16	Experimental study on n-heptane pool fire behavior under dynamic pressure in an altitude chamber. Journal of Thermal Analysis and Calorimetry, 2017, 128, 1151-1163.	3.6	16
17	Experimental investigation on the burning behaviors of thin-layer transformer oil on a water layer. Chemical Engineering Research and Design, 2020, 139, 89-97.	5.6	16
18	Experimental study on the effect of substrate slope on continuously released heptane spill fires. Journal of Thermal Analysis and Calorimetry, 2020, 140, 2497-2503.	3.6	14

#	Article	IF	Citations
19	Development of a model to generate a risk map in a building fire. Science China Technological Sciences, 2010, 53, 2739-2747.	4.0	13
20	Investigation of the freezing process of water droplets based on average and local initial ice fraction. Experimental Heat Transfer, 2020, 33, 197-209.	3.2	13
21	An experimental study on fire behavior of an inclined ceiling jet in a low-pressure environment. International Journal of Thermal Sciences, 2019, 138, 487-495.	4.9	12
22	Experimental study on the burning behavior and combustion toxicity of corrugated cartons under varying sub-atmospheric pressure. Journal of Hazardous Materials, 2019, 379, 120785.	12.4	11
23	Investigation of the effect of low pressure on fire hazard in cargo compartment. Applied Thermal Engineering, 2019, 158, 113775.	6.0	11
24	Multi-hazard disaster scenario method and emergency management for urban resilience by integrating experimentâ€“simulationâ€“field data. Journal of Safety Science and Resilience, 2021, 2, 77-89.	2.3	11
25	Experimental study of oil pool shape and environment pressure on the wall fire behavior in an airplane cargo compartment. International Journal of Thermal Sciences, 2022, 174, 107440.	4.9	10
26	Effect of low temperature boundary on fuel distribution of pool fires on an immiscible sub-layer. Experimental Thermal and Fluid Science, 2019, 104, 221-228.	2.7	9
27	Emergency-Oriented Spatiotemporal Trajectory Pattern Recognition by Intelligent Sensor Devices. IEEE Access, 2017, 5, 3687-3697.	4.2	8
28	An experimental and modeling study of heat radiation characteristics of inclined ceiling jet in an airplane cargo compartment. Fire and Materials, 2019, 43, 794-801.	2.0	8
29	Effects of static pressure, pressurization, and depressurization on nâ€heptane pool fires in an airplane cargo compartment. Fire and Materials, 2019, 43, 266-276.	2.0	8
30	The burning process and temperature profile of double fires in a tunnel: An experimental study. Tunnelling and Underground Space Technology, 2022, 125, 104500.	6.2	8
31	Numerical investigation of the impact of different configurations and aspect ratios on dense gas dispersion in urban street canyons. Tsinghua Science and Technology, 2007, 12, 345-351.	6.1	7
32	Reduced-order modelling of urban wind environment and gaseous pollutants dispersion in an urban-scale street canyon. Journal of Safety Science and Resilience, 2021, 2, 238-245.	2.3	7
33	Deterioration of polypropylene/silicon dioxide nanocomposites before oxidative degradation. Journal of Applied Polymer Science, 2009, 113, 601-606.	2.6	6
34	Effects of coupling agents on the natural aging behavior and oxidation profile of highâ€density polyethylene/sericite composites. Journal of Applied Polymer Science, 2008, 107, 610-617.	2.6	5
35	Mixed reality LVC simulation: A new approach to study pedestrian behaviour. Building and Environment, 2022, 207, 108404.	6.9	5
36	The zone-particle model for building fire simulation. Science Bulletin, 2010, 55, 3060-3065.	1.7	4

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37	Evolution of pool fire plume characteristics during the depressurization process of an aircraft cargo compartment. Journal of Fire Sciences, 2018, 36, 362-375.	2.0	4
38	Experimental investigation of n-Heptane ring fires with varying shape characteristics under sub-atmospheric pressures. Experimental Heat Transfer, 2021, 34, 105-120.	3.2	4
39	A new method of evaluating signage system using mixed reality and eye tracking. , 2018, , .		3
40	Experimental study of fire propagation and heat transfer of biomass straw fuel with different stacked diameters and thicknesses. Fuel, 2022, 315, 123260.	6.4	3
41	Asymmetric information in combating terrorism: Is the threat just a bluff?. Tsinghua Science and Technology, 2010, 15, 604-612.	6.1	2
42	Experimental investigation on the influence of annular pool shape characteristics on nâ€heptane ring fires. Fire and Materials, 2020, 44, 640-647.	2.0	2
43	Integrating Ergonomics Into Safety Management: A Conceptual Risk Assessment Model for Tower Controllers at Multiple Altitudes. IEEE Access, 2021, 9, 93364-93383.	4.2	2
44	An advanced fire estimation model for decentralized building control. Building Simulation, 2015, 8, 579-591.	5.6	1
45	Major concerns of defining the map symbol standard in emergency management. , 2013, , .		0
46	The Influence of Sensors Arrangement and Quantity on MCMC Inversion Model Based on Bayesian Inference. , 2016, , .		0
47	Determination and evolution of fractal property of n-heptane pool fires caused by depressurization process in an aircraft cargo compartment. Journal of Thermal Analysis and Calorimetry, 0, , 1.	3.6	0
48	Correlation analysis between environmental pressure and vision-based flames from monitoring camera during depressurization process. Signal, Image and Video Processing, 0, , 1.	2.7	0