

Ruowen Zong

List of Publications by Year in descending order

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51
papers

1,054
citations

394421

19
h-index

434195

31
g-index

52
all docs

52
docs citations

52
times ranked

802
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation and characterization of flame retardant ABS/montmorillonite nanocomposite. <i>Applied Clay Science</i> , 2004, 25, 49-55.	5.2	158
2	Thermogravimetric evaluation of PC/ABS/montmorillonite nanocomposite. <i>Polymer Degradation and Stability</i> , 2004, 83, 423-428.	5.8	78
3	Halogen-free flame retardation and silane crosslinking of polyethylenes. <i>Polymer Testing</i> , 2003, 22, 533-538.	4.8	63
4	Comparative studies on foam stability, oil-film interaction and fire extinguishing performance for fluorine-free and fluorinated foams. <i>Chemical Engineering Research and Design</i> , 2020, 133, 201-215.	5.6	57
5	Experimental determination of flame length of buoyancy-controlled turbulent jet diffusion flames from inclined nozzles. <i>Applied Thermal Engineering</i> , 2016, 93, 884-887.	6.0	53
6	Role of salts in performance of foam stabilized with sodium dodecyl sulfate. <i>Chemical Engineering Science</i> , 2020, 216, 115474.	3.8	50
7	A single \pm -cobalt hydroxide/sodium alginate bilayer layer-by-layer assembly for conferring flame retardancy to flexible polyurethane foams. <i>Materials Chemistry and Physics</i> , 2017, 191, 52-61.	4.0	41
8	Thermal degradation kinetics of polyethylene and silane-crosslinked polyethylene. <i>Journal of Applied Polymer Science</i> , 2005, 98, 1172-1179.	2.6	39
9	An experimental study of flame height and air entrainment of buoyancy-controlled jet flames with sidewalls. <i>Fuel</i> , 2016, 183, 164-169.	6.4	36
10	Theoretical and experimental analysis of ceiling-jet flow in corridor fires. <i>Tunnelling and Underground Space Technology</i> , 2011, 26, 651-658.	6.2	35
11	Investigation of thermal degradation and flammability of polyamide-6 and polyamide-6 nanocomposites. <i>Journal of Applied Polymer Science</i> , 2007, 104, 2297-2303.	2.6	31
12	Experimental study on flame height of two oil tank fires under different lip heights and distances. <i>Chemical Engineering Research and Design</i> , 2020, 139, 182-190.	5.6	28
13	Influence of organophilic clay and preparation methods on EVA/montmorillonite nanocomposites. <i>Journal of Applied Polymer Science</i> , 2004, 91, 2416-2421.	2.6	27
14	Formation of stable aqueous foams on the ethanol layer: Synergistic stabilization of fluorosurfactant and polymers. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 591, 124545.	4.7	27
15	Evaluation of the thermal degradation of PC/ABS/montmorillonite nanocomposites. <i>Polymers for Advanced Technologies</i> , 2005, 16, 725-731.	3.2	25
16	Experimental and numerical study of the fire behavior of a tank with oil leaking and burning. <i>Chemical Engineering Research and Design</i> , 2022, 159, 1203-1214.	5.6	22
17	Study of the fire characteristics for multi-source fires in the confined corridor. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2015, 147, 239-250.	3.9	21
18	Analytical study of wall factor on the ceiling temperature distribution in the far field for tunnel fires. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2017, 171, 196-201.	3.9	21

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19	Experimental study on virtual origins of buoyancy-controlled jet flames with sidewalls. <i>Applied Thermal Engineering</i> , 2016, 106, 1088-1093.	6.0	20
20	Foaming behavior of fluorocarbon surfactant used in fire-fighting: The importance of viscosity and self-assembly structure. <i>Journal of Molecular Liquids</i> , 2021, 327, 114811.	4.9	19
21	A dynamic approach for evaluating the consequences of toxic gas dispersion in the chemical plants using CFD and evacuation modelling. <i>Journal of Loss Prevention in the Process Industries</i> , 2020, 65, 104156.	3.3	18
22	Comparative study of toxicity for thermoplastic polyurethane and its flame-retardant composites. <i>Journal of Thermoplastic Composite Materials</i> , 2019, 32, 1393-1407.	4.2	16
23	Evacuation route optimization under real-time toxic gas dispersion through CFD simulation and Dijkstra algorithm. <i>Journal of Loss Prevention in the Process Industries</i> , 2022, 76, 104733.	3.3	16
24	Classification and identification of soot source with principal component analysis and back-propagation neural network. <i>Australian Journal of Forensic Sciences</i> , 2014, 46, 224-233.	1.2	15
25	Fire Extinguishing Efficiency of Magnesium Hydroxide Powders under Different Particle Size. <i>Procedia Engineering</i> , 2018, 211, 447-455.	1.2	12
26	Stability and thinning behaviour of aqueous foam films containing fluorocarbon and hydrocarbon surfactant mixtures. <i>Journal of Molecular Liquids</i> , 2022, 359, 119225.	4.9	12
27	The physical model and validation study of ceiling-jet flow in near-field of corridor fires. <i>International Journal of Heat and Mass Transfer</i> , 2015, 88, 91-100.	4.8	11
28	Highly stable fluorine-free foam by synergistically combining hydrolyzed rice protein and ferrous sulfate. <i>Chemical Engineering Science</i> , 2022, 250, 117378.	3.8	10
29	Investigation of thermal decomposition of polymer nanocomposites with different char residues. <i>Polymers for Advanced Technologies</i> , 2015, 26, 1027-1033.	3.2	9
30	Experimental investigation of flame length of buoyancy-controlled jet flames from inclined rectangular nozzles. <i>Experimental Heat Transfer</i> , 2019, 32, 239-250.	3.2	9
31	Influence of polymerization degree on the dynamic interfacial properties and foaming ability of ammonium polyphosphate (APP)-surfactant mixtures. <i>Journal of Molecular Liquids</i> , 2021, 335, 116175.	4.9	9
32	Impact of openings on fire properties in the confined corridors. <i>Applied Thermal Engineering</i> , 2017, 110, 746-757.	6.0	8
33	Experimental investigation on the spread of aqueous foam over ethanol surface. <i>Chinese Journal of Chemical Engineering</i> , 2020, 28, 2946-2954.	3.5	8
34	Analysis of Flame Extinguishment and Height in Low Frequency Acoustically Excited Methane Jet Diffusion Flame. <i>Microgravity Science and Technology</i> , 2018, 30, 237-242.	1.4	7
35	Scale model and numerical validation of smoke movement in long-narrow underground fires. <i>Tunnelling and Underground Space Technology</i> , 2018, 78, 27-34.	6.2	6
36	Effect of Different Fuels on Confined Compartment Fire. <i>Journal of Fire Sciences</i> , 2010, 28, 383-403.	2.0	5

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37	Effects of Fe (II) on stability of aqueous foam prepared by hydrolyzed rice protein in the presence of oil. <i>Journal of Molecular Liquids</i> , 2022, 345, 117666.	4.9	5
38	Influence of seawater on interfacial Properties, foam performance and aggregation behaviour of Fluorocarbon/Hydrocarbon surfactant mixtures. <i>Journal of Molecular Liquids</i> , 2022, 359, 119297.	4.9	5
39	Analysis of Influencing Factors on Flashover in the Long-narrow Confined Space. <i>Procedia Engineering</i> , 2013, 62, 250-257.	1.2	4
40	Modeling the pyrolysis study of non-charring polymers under reduced pressure environments. <i>Heat and Mass Transfer</i> , 2018, 54, 1135-1144.	2.1	4
41	Numerical Simulation of Decomposition of Polymer Nano-composites: Investigation of the Influence of the Char Structure. <i>Energy Procedia</i> , 2015, 66, 165-168.	1.8	3
42	The source identification and classification study of soot after combustion. <i>Fire and Materials</i> , 2013, 37, 246-256.	2.0	2
43	Influence of fire accelerant on the thermal degradation and ignition of wood chip. <i>Australian Journal of Forensic Sciences</i> , 2016, 48, 538-548.	1.2	2
44	Effect of montmorillonite on flame spread characteristics and smoke toxicity of acrylonitrile butadiene styrene copolymer composite. <i>Polymer Composites</i> , 2018, 39, 1234-1241.	4.6	2
45	Scaling applications of wall parameters in a tunnel fire. <i>Tunnelling and Underground Space Technology</i> , 2020, 106, 103585.	6.2	2
46	Investigation of a combustible material in the fire of Hengyang merchant's building. <i>Fire and Materials</i> , 2008, 32, 399-415.	2.0	1
47	Study on multi-section, nonlinear model of flashover in a long narrow confined space. <i>Journal of Fire Sciences</i> , 2014, 32, 518-538.	2.0	1
48	Study of Downward Flame Spread and Fire Risk Evaluation of the Thermoplastic Materials. <i>Procedia Engineering</i> , 2018, 211, 590-598.	1.2	1
49	A Reliability Evaluation of Lifeline Systems Effects on Fire Rescue. <i>Procedia Engineering</i> , 2014, 71, 296-303.	1.2	0
50	Experimental Study on Pyrolysis of Black Non-Charring Polymers in the Reduced-Pressure Environment. <i>Combustion, Explosion and Shock Waves</i> , 2018, 54, 309-315.	0.8	0
51	Experimental Study on the Temperature Decay and Maximum Temperature in a Container Fire. , 2019, , .		0