Zhisheng Xu

List of Publications by Year
in descending order

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Version: 2024-02-01

56 papers	1,335 citations	331538 21 h-index	360920 35 g-index
56 all docs	56 docs citations	56 times ranked	787 citing authors

#	Article	IF	Citations
1	Influence of carbon nanoparticle geometry on the fire resistance and antiâ€aging properties of intumescent fireâ€retardant coatings. Fire and Materials, 2022, 46, 628-638.	0.9	7
2	A numerical study on smoke behaviors in inclined tunnel fires under natural ventilation. Journal of Safety Science and Resilience, 2022, 3, 169-178.	1.3	4
3	Experimental study on the effectiveness and safety of cement powder on extinguishing metal magnesium fires based on pneumatic conveying technology. Case Studies in Thermal Engineering, 2022, 37, 102279.	2.8	4
4	Fabrication of talc reinforced transparent fire-retardant coating towards excellent fire protection, antibacterial, mechanical and anti-ageing properties. Polymer Degradation and Stability, 2022, 203, 110074.	2.7	9
5	Influence of gasâ€“liquid ratio on the fire-extinguishing efficiency of compressed gas protein foam in diesel pool fire. Journal of Thermal Analysis and Calorimetry, 2021, 146, 1465-1472.	2.0	8
6	Synergistic effects of organically modified montmorillonite in combination with metal oxides on the fire safety enhancement of intumescent flameâ€retarded epoxy resins. Journal of Vinyl and Additive Technology, 2021, 27, 161-173.	1.8	13
7	Study of the applicability and optimal arrangement of alternative jet fans in curved road tunnel complexes. Tunnelling and Underground Space Technology, 2021, 108, 103721.	3.0	9
8	Fabrication of organophosphate-grafted kaolinite and its effect on the fire-resistant and anti-ageing properties of amino transparent fire-retardant coatings. Polymer Degradation and Stability, 2021, 188, 109589.	2.7	20
9	Fire Resistance, Thermal and Anti-Ageing Properties of Transparent Fire-Retardant Coatings Modified with Different Molecular Weights of Polyethylene Glycol Borate. Polymers, 2021, 13, 4206.	2.0	7
10	Synergistic effect of bismuth oxide and monoâ€component intumescent flame retardant on the flammability and smoke suppression properties of epoxy resins. Polymers for Advanced Technologies, 2020, 31, 25-35.	1.6	15
11	Flame retardancy and smoke suppression properties of transparent intumescent fire-retardant coatings reinforced with layered double hydroxides. Journal of Coatings Technology Research, 2020, 17, 157-169.	1.2	20
12	Synthesis of organophosphate-functionalized graphene oxide for enhancing the flame retardancy and smoke suppression properties of transparent fire-retardant coatings. Polymer Degradation and Stability, 2020, 172, 109064.	2.7	34
13	Comparative study of the fire protection performance and thermal stability of intumescent fireâ€retardant coatings filled with three types of clay nanoâ€fillers. Fire and Materials, 2020, 44, 112-120.	0.9	25
14	Applying Real-Time Travel Times to Estimate Fire Service Coverage Rate for High-Rise Buildings. Applied Sciences (Switzerland), 2020, 10, 6632.	1.3	11
15	Study on the influence of bypass tunnel angle on gas shunting efficiency of urban road tunnels. Journal of Wind Engineering and Industrial Aerodynamics, 2020, 205, 104229.	1.7	10
16	Synergistic effect of clam shell bio-filler on the fire-resistance and char formation of intumescent fire-retardant coatings. Journal of Materials Research and Technology, 2020, 9, 14718-14728.	2.6	26
17	Combination Effect of Organically Modified Montmorillonite and Nanoâ€Silica on Reducing the Fire Hazards of Intumescent Flameâ€Retarded Epoxy Resins. Journal of Vinyl and Additive Technology, 2020, 26, 490-501.	1.8	13
18	Experimental Investigation on the Discharge of Pollutants from Tunnel Fires. Sustainability, 2020, 12, 1817.	1.6	1

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19	Experimental study of heat exhaust efficiency with natural ventilation in tunnel fire: Impact of shaft height and heat release rate. Journal of Wind Engineering and Industrial Aerodynamics, 2020, 201, 104173.	1.7	24
20	Synergistic effect of sepiolite and polyphosphate ester on the fire protection and smoke suppression properties of an amino transparent fire-retardant coating. Progress in Organic Coatings, 2020, 141, 105572.	1.9	19
21	Enhancing the Thermal Stability and Flame Retardancy of Transparent Fire-Retardant Coatings Applied on Wood Substrates by Introducing Multi-walled Carbon Nanotubes. , 2020, , 505-519.		0
22	Predictive analysis of fire frequency based on daily temperatures. Natural Hazards, 2019, 97, 1175-1189.	1.6	13
23	Effect of vehicular blocking scene on smoke spread in the longitudinal ventilated tunnel fire. Case Studies in Thermal Engineering, 2019, 14, 100495.	2.8	19
24	Study on the heat exhaust coefficient and smoke flow characteristics under lateral smoke exhaust in tunnel fires. Fire and Materials, 2019, 43, 857-867.	0.9	25
25	Synthesis and application of novel magnesium phosphate ester flame retardants for transparent intumescent fire-retardant coatings applied on wood substrates. Progress in Organic Coatings, 2019, 129, 327-337.	1.9	59
26	Effects of polyethylene glycol borate on the flame retardancy and smoke suppression properties of transparent fire-retardant coatings applied on wood substrates. Progress in Organic Coatings, 2019, 135, 123-134.	1.9	70
27	Influence of winding wall on the entrainment characteristics of air jet in curved road tunnels. Tunnelling and Underground Space Technology, 2019, 90, 330-339.	3.0	20
28	Synergistic effects of mono-component intumescent flame retardant grafted with carbon black on flame retardancy and smoke suppression properties of epoxy resins. Journal of Thermal Analysis and Calorimetry, 2019, 138, 915-927.	2.0	30
29	Generalized analysis of regional fire risk using data visualization of incidents. Fire and Materials, 2019, 43, 413-421.	0.9	11
30	Experimental investigation on smoke spread characteristics and smoke layer height in tunnels. Fire and Materials, 2019, 43, 303-309.	0.9	30
31	Investigation on smoke temperature distribution in a double-deck tunnel fire with longitudinal ventilation and lateral smoke extraction. Case Studies in Thermal Engineering, 2019, 13, 100375.	2.8	10
32	Numerical investigation on the effectiveness of positive pressure ventilation technology in a multi-layer subway station. Indoor and Built Environment, 2019, 28, 984-998.	1.5	7
33	Synergistic flame-retardant and smoke suppression effects of zinc borate in transparent intumescent fire-retardant coatings applied on wood substrates. Journal of Thermal Analysis and Calorimetry, 2019, 136, 1563-1574.	2.0	44
34	Effect of chicken eggshell on the flameâ€retardant and smoke suppression properties of an epoxyâ€based traditional APPâ€PERâ€MEL system. Polymer Composites, 2019, 40, 2712-2723.	2.3	71
35	Synergistic effects of aluminum hydroxide on improving the flame retardancy and smoke suppression properties of transparent intumescent fire-retardant coatings. Journal of Coatings Technology Research, 2018, 15, 1357-1369.	1.2	26
36	Enhancing the flame-retardant and smoke suppression properties of transparent intumescent fire-retardant coatings by introducing boric acid as synergistic agent. Journal of Thermal Analysis and Calorimetry, 2018, 133, 1241-1252.	2.0	43

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37	Numerical Simulation of Smoke Control Effectiveness with Different Exhaust Modes in a Large Subway Station. Procedia Engineering, 2018, 211, 1065-1074.	1.2	8
38	Preparation of a novel mono-component intumescent flame retardant for enhancing the flame retardancy and smoke suppression properties of epoxy resin. Journal of Thermal Analysis and Calorimetry, 2018, 134, 1505-1519.	2.0	50
39	Synergistic effects of organically modified montmorillonite on the flame-retardant and smoke suppression properties of transparent intumescent fire-retardant coatings. Progress in Organic Coatings, 2018, 122, 107-118.	1.9	87
40	Analysis of entrainment phenomenon near mechanical exhaust vent and a prediction model for smoke temperature in tunnel fire. Tunnelling and Underground Space Technology, 2018, 80, 143-150.	3.0	70
41	Component-based model of fin plate connections exposed to fire-part I: Plate in bearing component. Journal of Constructional Steel Research, 2018, 149, 1-13.	1.7	6
42	Component-based model of fin plate connections exposed to fire-part II: Establishing of the component-based model. Journal of Constructional Steel Research, 2018, 145, 218-231.	1.7	5
43	Analysis on the influence of the smoke block board on the entrainment phenomena near a mechanical exhaust vent. Case Studies in Thermal Engineering, 2018, 12, 569-577.	2.8	8
44	Functionalized multiwalled carbon nanotubes with monocomponent intumescent flame retardant for reducing the flammability and smoke emission characteristics of epoxy resins. Polymers for Advanced Technologies, 2018, 29, 3002-3013.	1.6	30
45	Influence of nano-silica on the flame retardancy and smoke suppression properties of transparent intumescent fire-retardant coatings. Progress in Organic Coatings, 2017, 112, 319-329.	1.9	86
46	A study of fire smoke spreading and control in emergency rescue stations of extra-long railway tunnels. Journal of Loss Prevention in the Process Industries, 2017, 49, 155-161.	1.7	37
47	Influence of nanoparticle geometry on the thermal stability and flame retardancy of high-impact polystyrene nanocomposites. Journal of Thermal Analysis and Calorimetry, 2017, 130, 1987-1996.	2.0	24
48	Flame retardant and smoke suppression mechanism of multi-walled carbon nanotubes on high-impact polystyrene nanocomposites. Iranian Polymer Journal (English Edition), 2016, 25, 623-633.	1.3	14
49	Research on the Effects of Charring on the Polymer Combustion Process. Procedia Engineering, 2016, 135, 336-342.	1.2	2
50	Experimental study on heat exhaust coefficient of transversal smoke extraction system in tunnel under fire. Tunnelling and Underground Space Technology, 2015, 49, 268-278.	3.0	42
51	An experimental study on critical velocity in sloping tunnel with longitudinal ventilation under fire. Tunnelling and Underground Space Technology, 2014, 43, 198-203.	3.0	97
52	Numerical Study on Effects of Induced Velocity on Central Extraction System in Large Tunnel Fire. Procedia Engineering, 2012, 45, 678-684.	1.2	6
53	Research on Risk Management of Bleaching Powder Concentrate Production. , 2011, , .		0
54	Safety feasibility analysis on the liquid organic heat transfer material heater used in the production process of bleaching powder concentrate. , 2009, , .		1

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55	Influences of inclined tunnel ceiling on plugâ€holing phenomenon and mechanical smoke exhaust efficiency in tunnel fires. Fire and Materials, 0, , .	0.9	2
56	Experimental and Numerical Study of Plug-Holing with Lateral Smoke Exhaust in Tunnel Fires. Fire Technology, 0, , 1.	1.5	3