

# Long Shi

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7546330/publications.pdf>

Version: 2024-02-01

127  
papers

3,248  
citations

145106

33  
h-index

214428

50  
g-index

127  
all docs

127  
docs citations

127  
times ranked

2254  
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of thermal properties of timber and char at elevated temperatures. <i>Indoor and Built Environment</i> , 2023, 32, 9-24.	1.5	4
2	Numerical study on the ceiling gas temperature in a subway train with different fire locations. <i>Building Simulation</i> , 2022, 15, 549-560.	3.0	2
3	A combined wall and roof solar chimney in one building. <i>Energy</i> , 2022, 240, 122480.	4.5	5
4	Temperature characteristics in a double long-narrow space with different fire locations. <i>Tunnelling and Underground Space Technology</i> , 2022, 119, 104244.	3.0	3
5	Smoke filling and entrainment behaviors of fire in a sealed ship engine room. <i>Ocean Engineering</i> , 2022, 245, 110521.	1.9	14
6	An improved theoretical model for the maximum smoke temperature rise in a tunnel based on equivalent fire source. <i>Tunnelling and Underground Space Technology</i> , 2022, 122, 104339.	3.0	6
7	Impacts of thermo-optical properties on the seasonal operation of thermochromic smart window. <i>Energy Conversion and Management</i> , 2022, 252, 115058.	4.4	12
8	Numerical investigation on the characteristics of lateral smoke extraction in the immersed road tunnel. <i>Fire and Materials</i> , 2022, 46, 1111-1126.	0.9	3
9	Effects of blockage on the flame morphologic characteristics in a ventilated tunnel. <i>Tunnelling and Underground Space Technology</i> , 2022, 123, 104410.	3.0	2
10	Sliding Mode Observer for State-of-Charge Estimation Using Hysteresis-Based Li-Ion Battery Model. <i>Energies</i> , 2022, 15, 2658.	1.6	9
11	Solar-assisted naturally ventilated double skin facade for buildings: Room impacts and indoor air quality. <i>Building and Environment</i> , 2022, 216, 109002.	3.0	7
12	CFD analysis of environmental impacts on a thermochromic smart window. <i>Energy and Buildings</i> , 2022, 263, 112027.	3.1	5
13	Assessment on thermal safety of aluminum hydroxide doping hydrophobic silica aerogels. <i>Journal of Nanoparticle Research</i> , 2022, 24, 1.	0.8	4
14	Solar chimney performance in buildings under three heating modes: An empirical analysis. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 52, 102222.	1.7	3
15	Ventilating aged-care center based on solar chimney: Design and theoretical analysis. <i>Energy and Buildings</i> , 2022, 266, 112145.	3.1	1
16	Thermal and ventilation performance of a curved double-skin facade model. <i>Energy and Buildings</i> , 2022, 268, 112202.	3.1	4
17	Impacts of Spatial Components on Outdoor Thermal Comfort in Traditional Linpan Settlements. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 6421.	1.2	7
18	Assessment of melting and dripping effect on ignition of vertically discrete polypropylene and polyethylene slabs. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 144, 751-762.	2.0	10

#	ARTICLE	IF	CITATIONS
19	Influences of heating rate on the nano-porous structure of silica aerogel. <i>Particulate Science and Technology</i> , 2021, 39, 123-130.	1.1	1
20	Identifying the criterion for discrete flame spread over single-row birch rods. <i>Fire Safety Journal</i> , 2021, 120, 103116.	1.4	19
21	Experimental study on combustion and flame spread characteristics in horizontal arrays of discrete fuels. <i>Combustion and Flame</i> , 2021, 225, 136-146.	2.8	29
22	Ventilation performance of a naturally ventilated double-skin facade in buildings. <i>Renewable Energy</i> , 2021, 167, 184-198.	4.3	29
23	Critical transmission paths and nodes of carbon emissions in electricity supply chain. <i>Science of the Total Environment</i> , 2021, 755, 142530.	3.9	23
24	Experimental investigation on the characteristics and propagation of fire inside subway train. <i>Tunnelling and Underground Space Technology</i> , 2021, 107, 103632.	3.0	11
25	The maximum gas temperature rises beneath the ceiling in a longitudinal ventilated tunnel fire. <i>Tunnelling and Underground Space Technology</i> , 2021, 108, 103672.	3.0	36
26	Experimental Study on the Thermoplastic Dripping and Flame Spread Behaviors of Energized Electrical Wire under Reduced Atmospheric Pressure. <i>Polymers</i> , 2021, 13, 346.	2.0	3
27	Fire behaviors of two-layer coated latex foam with an extremely thin surface layer under bottom ventilation conditions. <i>Chemical Engineering Research and Design</i> , 2021, 148, 1164-1178.	2.7	3
28	Solar Chimney Applications in Buildings. <i>Encyclopedia</i> , 2021, 1, 409-422.	2.4	10
29	A critical review of combined natural ventilation techniques in sustainable buildings. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 141, 110795.	8.2	93
30	Improving the flame retardance of hydrophobic silica aerogels through a facile post-doping of magnesium hydroxide. <i>Advanced Powder Technology</i> , 2021, 32, 1891-1901.	2.0	10
31	The impacts of occupant behavior on building energy consumption: A review. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 45, 101212.	1.7	32
32	Dynamic characteristics and drivers of the regional household energy-carbon-water nexus in China. <i>Environmental Science and Pollution Research</i> , 2021, 28, 55220-55232.	2.7	6
33	A fly-wing smoke screen to improve the smoke exhaustion performance of a vertical shaft in road tunnel. <i>Tunnelling and Underground Space Technology</i> , 2021, 113, 103983.	3.0	6
34	Energy assessment methods for solar chimney in buildings: A review. <i>Journal of Renewable and Sustainable Energy</i> , 2021, 13, .	0.8	2
35	Study on the mass loss rate of liquid pool fire in a well-confined ship cabin. <i>International Journal of Thermal Sciences</i> , 2021, 166, 106984.	2.6	20
36	Ventilation performance of a naturally ventilated double skin facade with low-e glazing. <i>Energy</i> , 2021, 229, 120706.	4.5	29

#	ARTICLE	IF	CITATIONS
37	Naturally ventilated double-skin facade with adjustable louvers. <i>Solar Energy</i> , 2021, 225, 33-43.	2.9	25
38	A wall solar chimney to ventilate multi-zone buildings. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 47, 101381.	1.7	8
39	Markov Chain-Based Inspection and Maintenance Model for Stormwater Pipes. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2021, 147, .	1.3	4
40	Predicting airflow in naturally ventilated double-skin facades: theoretical analysis and modelling. <i>Renewable Energy</i> , 2021, 179, 1940-1954.	4.3	15
41	Experimental and numerical study on smoke evolution in polyethylene (PE) slabs enclosed compartment fire. <i>Combustion Science and Technology</i> , 2020, 192, 2238-2258.	1.2	0
42	Experimental Study on Fire Plume Characteristics in a Subway Carriage with Doors. <i>Fire Technology</i> , 2020, 56, 401-423.	1.5	15
43	Experimental study on the smoke temperature evolution in a polyethylene (PE)-lined compartment on fire. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 140, 1907-1917.	2.0	1
44	Fire behaviors of vertical and horizontal polymethyl methacrylate slabs under autoignition conditions. <i>Process Safety Progress</i> , 2020, 39, e12109.	0.4	7
45	A review on the recovery of fire-damaged concrete with post-fire-curing. <i>Construction and Building Materials</i> , 2020, 237, 117564.	3.2	47
46	External wind on the optimum designing parameters of a wall solar chimney in building. <i>Sustainable Energy Technologies and Assessments</i> , 2020, 42, 100842.	1.7	12
47	Flame retardant polyurethane sponge/MTMS aerogel composites with improved mechanical properties under ambient pressure drying. <i>Journal of Nanoparticle Research</i> , 2020, 22, 1.	0.8	11
48	Solar chimney in tunnel considering energy-saving and fire safety. <i>Energy</i> , 2020, 210, 118601.	4.5	24
49	Thermal stability and pyrolysis characteristics of MTMS aerogels prepared in pure water. <i>Journal of Nanoparticle Research</i> , 2020, 22, 1.	0.8	16
50	Trombe wall for a residential building in Sichuan-Tibet Alpine valley – A case study. <i>Renewable Energy</i> , 2020, 156, 31-46.	4.3	39
51	Rapid synthesis and characterization of monolithic ambient pressure dried MTMS aerogels in pure water. <i>Journal of Porous Materials</i> , 2020, 27, 1241-1251.	1.3	22
52	Solar chimney for a real building considering both energy-saving and fire safety – a case study. <i>Energy and Buildings</i> , 2020, 221, 110016.	3.1	33
53	Study of flow characteristics in tunnels induced by canyon wind. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2020, 202, 104236.	1.7	25
54	A review of internal and external influencing factors on energy efficiency design of buildings. <i>Energy and Buildings</i> , 2020, 216, 109944.	3.1	87

#	ARTICLE	IF	CITATIONS
55	Outdoor Thermal Comfort of Urban Park—A Case Study. Sustainability, 2020, 12, 1961.	1.6	45
56	Experimental study on ceiling smoke temperature distributions in near field of pool fires in the subway train. Journal of Wind Engineering and Industrial Aerodynamics, 2020, 199, 104135.	1.7	18
57	Fire retardancy and thermal behaviors of Cellulose nanofiber/zinc borate aerogel. Cellulose, 2020, 27, 7463-7474.	2.4	23
58	Critical ventilation velocity under the blockage of different metro train in a long metro tunnel. Fire and Materials, 2020, 44, 497-505.	0.9	11
59	Effect of train fire location on maximum smoke temperature beneath the subway tunnel ceiling. Tunnelling and Underground Space Technology, 2020, 97, 103282.	3.0	34
60	Numerical simulation of two-way fluid-structure interaction of wind loading on buildings. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'uan, 2020, 43, 225-240.	0.6	5
61	ANALYSIS OF EXPERIMENTAL DATA ON THE EFFECT OF BOTTOM VENTILATION CONDITIONS ON FIRE BEHAVIOR OVER A THERMALLY THIN NATURAL LATEX FOAM. Heat Transfer Research, 2020, 51, 359-376.	0.9	2
62	Impacts of wind on solar chimney performance in a building. Energy, 2019, 185, 55-67.	4.5	40
63	Critical ventilation velocity of two fire sources with different separating distances in road tunnel. Journal of Fire Sciences, 2019, 37, 320-339.	0.9	21
64	Preparation and characterization of silica aerogel/polytetrafluoroethylene composites. Materials Research Express, 2019, 6, 115021.	0.8	7
65	Recycled concrete aggregate mixed with crumb rubber under elevated temperature. Construction and Building Materials, 2019, 222, 119-129.	3.2	61
66	Interaction effect of room opening and air inlet on solar chimney performance. Applied Thermal Engineering, 2019, 159, 113877.	3.0	36
67	Comparison of Fire Behaviors of Thermally Thin and Thick Rubber Latex Foam under Bottom Ventilation. Polymers, 2019, 11, 88.	2.0	7
68	Influences of surface material on the fire behaviors of two-layer combustibles under autoignition conditions. Journal of Hazardous Materials, 2019, 369, 539-549.	6.5	6
69	Reducing the flammability of hydrophobic silica aerogels by doping with hydroxides. Journal of Hazardous Materials, 2019, 373, 536-546.	6.5	30
70	Characteristics of multiple pool fires in a tunnel with natural ventilation. Journal of Hazardous Materials, 2019, 369, 261-267.	6.5	23
71	Real-time smoke removal for the surveillance images under fire scenario. Signal, Image and Video Processing, 2019, 13, 1037-1043.	1.7	8
72	A Fire Reconnaissance Robot Based on SLAM Position, Thermal Imaging Technologies, and AR Display. Sensors, 2019, 19, 5036.	2.1	15

#	ARTICLE	IF	CITATIONS
73	Fire behaviors of single and laminated natural latex foam. <i>International Journal of Thermal Sciences</i> , 2019, 136, 278-286.	2.6	8
74	Methyltrichlorosilane modified hydrophobic silica aerogels and their kinetic and thermodynamic behaviors. <i>Journal of Sol-Gel Science and Technology</i> , 2019, 89, 448-457.	1.1	18
75	Analytical prediction of pyrolysis and ignition time of translucent fuel considering both time-dependent heat flux and in-depth absorption. <i>Fuel</i> , 2019, 235, 913-922.	3.4	15
76	Effects of shaft inclination angle on the capacity of smoke exhaust under tunnel fire. <i>Indoor and Built Environment</i> , 2019, 28, 77-87.	1.5	36
77	Experimental investigation on the influencing factors of preparing porous fly ash-based geopolymer for insulation material. <i>Energy and Buildings</i> , 2018, 168, 9-18.	3.1	57
78	Study on optimizing design of solar chimney for natural ventilation and smoke exhaustion. <i>Energy and Buildings</i> , 2018, 170, 145-156.	3.1	42
79	Numerical Study on the Spontaneous Combustion of High-density Polyethylene. <i>Procedia Engineering</i> , 2018, 211, 621-628.	1.2	7
80	Experimental investigations on the effects of bottom ventilation on the fire behavior of natural rubber latex foam. <i>Applied Thermal Engineering</i> , 2018, 133, 201-210.	3.0	18
81	Experimental study on the effects of initial sealing time on fire behaviors in channel fires. <i>International Journal of Thermal Sciences</i> , 2018, 125, 273-282.	2.6	57
82	A method of detecting the cracks of concrete undergo high-temperature. <i>Construction and Building Materials</i> , 2018, 162, 345-358.	3.2	51
83	Determining the influencing factors on the performance of solar chimney in buildings. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 88, 223-238.	8.2	103
84	A Guided Vehicle under Fire Conditions Based on a Modified Ultrasonic Obstacle Avoidance Technology. <i>Sensors</i> , 2018, 18, 4366.	2.1	6
85	Nanoflower-like N-doped C/CoS <sub>2</sub> as high-performance anode materials for Na-ion batteries. <i>Nanoscale</i> , 2018, 10, 20813-20820.	2.8	54
86	Effects of particle size of silica aerogel on its nano-porous structure and thermal behaviors under both ambient and high temperatures. <i>Journal of Nanoparticle Research</i> , 2018, 20, 1.	0.8	7
87	Theoretical models for wall solar chimney under cooling and heating modes considering room configuration. <i>Energy</i> , 2018, 165, 925-938.	4.5	55
88	Highly reversible Na ion storage in N-doped polyhedral carbon-coated transition-metal chalcogenides by optimizing the nanostructure and surface engineering. <i>Journal of Materials Chemistry A</i> , 2018, 6, 18967-18978.	5.2	46
89	Improving the performance of solar chimney by addressing the designing factors. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018, 168, 012010.	0.2	4
90	Double-Morphology CoS <sub>2</sub> Anchored on N-Doped Multichannel Carbon Nanofibers as High-Performance Anode Materials for Na-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 31441-31451.	4.0	72

#	ARTICLE	IF	CITATIONS
91	Analytical prediction of heat transfer and ignition time of solids exposed to time-dependent thermal radiation. <i>International Journal of Thermal Sciences</i> , 2018, 130, 227-239.	2.6	6
92	Ignition and combustion characteristics of lithium ion batteries under low atmospheric pressure. <i>Energy</i> , 2018, 161, 38-45.	4.5	65
93	Development of Building Thermal Load and Discomfort Degree Hour Prediction Models Using Data Mining Approaches. <i>Energies</i> , 2018, 11, 1570.	1.6	16
94	An experimental and non-dimensional study on the vertical temperature distribution of a sealed ship engine room fire. <i>Ocean Engineering</i> , 2018, 165, 22-33.	1.9	24
95	Maximum gas temperature rise beneath the ceiling in a portals-sealed tunnel fire. <i>Tunnelling and Underground Space Technology</i> , 2018, 80, 10-15.	3.0	64
96	A mathematical model for heat detector activation time under ship fire in a long-narrow space. <i>Ocean Engineering</i> , 2018, 159, 305-314.	1.9	7
97	Experimental investigation on the morphology of soot aggregates from the burning of typical solid and liquid fuels. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	0.8	10
98	Characteristics of nanoporous silica aerogel under high temperature from 950 Å°C to 1200 Å°C. <i>Materials and Design</i> , 2017, 129, 82-90.	3.3	75
99	Numerical Investigation of Back-Layering Length and Critical Velocity in Curved Subway Tunnels with Different Turning Radius. <i>Fire Technology</i> , 2017, 53, 1765-1793.	1.5	55
100	Effects of cement dosage and cooling regimes on the compressive strength of concrete after post-fire-curing from 800 Å°C. <i>Construction and Building Materials</i> , 2017, 142, 208-220.	3.2	42
101	A risk assessment method to quantitatively investigate the methane explosion in underground coal mine. <i>Chemical Engineering Research and Design</i> , 2017, 107, 317-333.	2.7	64
102	Experimental study on curved flame characteristics under longitudinal ventilation in a subway tunnel. <i>Applied Thermal Engineering</i> , 2017, 114, 733-743.	3.0	22
103	An experimental and numerical study on fire behaviors of charring materials frequently used in buildings. <i>Energy and Buildings</i> , 2017, 138, 140-153.	3.1	15
104	Smoke Movement in a Sloping Subway Tunnel Under Longitudinal Ventilation with Blockage. <i>Fire Technology</i> , 2017, 53, 1985-2006.	1.5	25
105	An experimental study on timely activation of smoke alarms and their effective notification in typical residential buildings. <i>Fire Safety Journal</i> , 2017, 93, 1-11.	1.4	14
106	Transport Time Lag Effect on Smoke Flow Characteristics in Long-Narrow Spaces. <i>Fire Technology</i> , 2017, 53, 983-1010.	1.5	5
107	Maximum smoke temperature beneath the ceiling in an enclosed channel with different fire locations. <i>Applied Thermal Engineering</i> , 2017, 111, 30-38.	3.0	87
108	Smoke back-layering flow length in longitudinal ventilated tunnel fires with vertical shaft in the upstream. <i>Applied Thermal Engineering</i> , 2016, 107, 738-746.	3.0	79

#	ARTICLE	IF	CITATIONS
109	An empirical model to predict the performance of typical solar chimneys considering both room and cavity configurations. <i>Building and Environment</i> , 2016, 103, 250-261.	3.0	57
110	Combustion Characteristics of Electrolyte Pool Fires for Lithium Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2016, 163, A2022-A2028.	1.3	27
111	Flammability and oxidation kinetics of hydrophobic silica aerogels. <i>Journal of Hazardous Materials</i> , 2016, 320, 350-358.	6.5	54
112	Developing an empirical model for roof solar chimney based on experimental data from various test rigs. <i>Building and Environment</i> , 2016, 110, 115-128.	3.0	43
113	Modeling the Pyrolysis and Combustion Behaviors of Non-Charring and Intumescent-Protected Polymers Using “FireCone”. <i>Polymers</i> , 2015, 7, 1979-1997.	2.0	16
114	A Model to Predict Carbon Monoxide of Woods Under External Heat Flux “ Part II: Validation and Application. <i>Procedia Engineering</i> , 2013, 62, 422-431.	1.2	1
115	Experimental study of woods under external heat flux by autoignition. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013, 111, 1399-1407.	2.0	38
116	Fire behaviors of polymers under autoignition conditions in a cone calorimeter. <i>Fire Safety Journal</i> , 2013, 61, 243-253.	1.4	64
117	A Model to Predict Carbon Monoxide of Woods under External Heat Flux “ Part I: Theory. <i>Procedia Engineering</i> , 2013, 62, 413-421.	1.2	3
118	A review of fire processes modeling of combustible materials under external heat flux. <i>Fuel</i> , 2013, 106, 30-50.	3.4	45
119	Influence of moisture on autoignition of woods in cone calorimeter. <i>Journal of Fire Sciences</i> , 2012, 30, 158-169.	0.9	25
120	Experimental study of carbon monoxide for woods under spontaneous ignition condition. <i>Fuel</i> , 2012, 102, 709-715.	3.4	26
121	A review on sustainable design of renewable energy systems. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 192-207.	8.2	129
122	Developing a database for emergency evacuation model. <i>Building and Environment</i> , 2009, 44, 1724-1729.	3.0	107
123	Improving analytic hierarchy process applied to fire risk analysis of public building. <i>Science Bulletin</i> , 2009, 54, 1442-1450.	4.3	17
124	Experimental Study on Fire Characteristics of PC Monitors“Part I: Combustion Properties and Pyrolysis Characteristics. <i>Journal of Applied Fire Science</i> , 2009, 19, 23-39.	0.0	2
125	Experimental Study on Fire Characteristics of PC Monitors“Part II: Full-Scale Study Under Different Ventilation Conditions. <i>Journal of Applied Fire Science</i> , 2009, 19, 41-61.	0.0	5
126	Recent Progresses in Research of Fire Protection on Historic Buildings. <i>Journal of Applied Fire Science</i> , 2009, 19, 63-81.	0.0	11



#	ARTICLE	IF	CITATIONS
127	Promotion Effect of Solid Screen on the Smoke Extraction of Vertical Shaft in Urban Road Tunnel Fire. Fire Technology, 0, , .	1.5	1