

# Shuangquan Shao

## List of Publications by Year in descending order

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Version: 2024-02-01

60  
papers

1,879  
citations

257450

24  
h-index

265206

42  
g-index

60  
all docs

60  
docs citations

60  
times ranked

1117  
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrated building envelope performance evaluation method towards nearly zero energy buildings based on operation data. <i>Energy and Buildings</i> , 2022, 268, 112219.	6.7	13
2	Experimental investigation on ducted hot aisle containment system for racks cooling of data center. <i>International Journal of Refrigeration</i> , 2021, 127, 137-147.	3.4	15
3	Experimental investigation on heat transfer rate self-adjustment capacity of a novel horizontal double-pipe cooler with eccentric axis structure. <i>International Journal of Refrigeration</i> , 2021, 128, 43-52.	3.4	0
4	Experimental investigation on two-phase flow pattern of ammonia inside 4 mm and 8 mm horizontal smooth tubes. <i>International Journal of Refrigeration</i> , 2021, 130, 253-260.	3.4	2
5	Effect of miscible oil on flow boiling heat transfer characteristic of ammonia in a 4 mm small tube. <i>International Journal of Heat and Mass Transfer</i> , 2020, 147, 118978.	4.8	1
6	Effects of the magnetic field on the freezing process of blueberry. <i>International Journal of Refrigeration</i> , 2020, 113, 288-295.	3.4	43
7	Effects of different magnetic fields on the freezing parameters of cherry. <i>Journal of Food Engineering</i> , 2020, 278, 109949.	5.2	43
8	Experimental investigation on a loop thermosyphon with evaporative condenser for free cooling of data centers. <i>Energy</i> , 2019, 185, 829-836.	8.8	36
9	Effects of the magnetic field on the freezing parameters of the pork. <i>International Journal of Refrigeration</i> , 2019, 107, 31-38.	3.4	46
10	Development and composition of a data center heat recovery system and evaluation of annual operation performance. <i>Energy</i> , 2019, 189, 116200.	8.8	22
11	Experimental investigation on a loop thermosyphon with three evaporators: Unique startup and oscillation phenomena. <i>International Journal of Refrigeration</i> , 2019, 99, 363-370.	3.4	20
12	Investigation on transient energy consumption of cold storages: Modeling and a case study. <i>Energy</i> , 2019, 180, 1-9.	8.8	21
13	Heat transfer and pressure drop characteristics of ammonia/miscible oil mixture during flow boiling in an 8 mm horizontal smooth tube. <i>International Journal of Thermal Sciences</i> , 2019, 138, 341-350.	4.9	14
14	Two-phase pressure drop of ammonia in horizontal small diameter tubes: Experiments and correlation. <i>International Journal of Refrigeration</i> , 2019, 98, 283-293.	3.4	4
15	The effect of heating power distribution on the startup time and overshoot of a loop thermosyphon with dual evaporators. <i>Applied Thermal Engineering</i> , 2018, 132, 554-559.	6.0	21
16	The transient response, oscillation and internal flow of a loop thermosyphon with dual evaporators. <i>International Journal of Refrigeration</i> , 2018, 88, 451-457.	3.4	21
17	Performance investigation on refrigeration and air conditioning systems with multi-evaporator. <i>Sustainable Cities and Society</i> , 2018, 39, 605-612.	10.4	9
18	Development of an unsteady analytical model for predicting infiltration flow rate through the doorway of refrigerated rooms. <i>Applied Thermal Engineering</i> , 2018, 129, 179-186.	6.0	11

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19	A review on thermosyphon and its integrated system with vapor compression for free cooling of data centers. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 81, 789-798.	16.4	102
20	Measuring the transient airflow rates of the infiltration through the doorway of the cold store by using a local air velocity linear fitting method. <i>Applied Energy</i> , 2018, 227, 480-487.	10.1	11
21	Heat transfer and pressure drop characteristics of ammonia during flow boiling inside a horizontal small diameter tube. <i>International Journal of Heat and Mass Transfer</i> , 2018, 127, 981-996.	4.8	21
22	Simulation on the performance and free cooling potential of the thermosyphon mode in an integrated system of mechanical refrigeration and thermosyphon. <i>Applied Energy</i> , 2017, 185, 1604-1612.	10.1	31
23	Numerical investigation of a CO <sub>2</sub> loop thermosyphon in an integrated air conditioning system for free cooling of data centers. <i>Applied Thermal Engineering</i> , 2017, 126, 1134-1140.	6.0	33
24	Numerical investigation on the buoyancy-driven infiltration airflow through the opening of the cold store. <i>Applied Thermal Engineering</i> , 2017, 121, 701-711.	6.0	7
25	Numerical Investigation on Three-fluid Heat Exchanger for Hybrid Energy Source Heat Pumps. <i>Energy Procedia</i> , 2017, 105, 1692-1699.	1.8	1
26	A Local Air Velocity Measurement Method for Estimating Infiltration Heat Load through Doorway of the Cold Store. <i>Energy Procedia</i> , 2017, 105, 3275-3281.	1.8	4
27	Experimental and numerical investigation on a CO <sub>2</sub> loop thermosyphon for free cooling of data centers. <i>Applied Thermal Engineering</i> , 2017, 111, 1083-1090.	6.0	61
28	An experimental investigation of the single-sided infiltration through doorways of the cold store. <i>International Journal of Refrigeration</i> , 2017, 73, 175-182.	3.4	8
29	Energy consumption analysis of the forced-air cooling process with alternating ventilation mode for fresh horticultural produce. <i>Energy Procedia</i> , 2017, 142, 2642-2647.	1.8	7
30	Numerical investigation on onset of significant void during water subcooled flow boiling. <i>Applied Thermal Engineering</i> , 2016, 105, 8-17.	6.0	23
31	Model simplification of scroll compressor with vapor refrigerant injection. <i>International Journal of Green Energy</i> , 2016, 13, 803-811.	3.8	6
32	Performance Chart: A Novel Method for Performance Analysis of Multi-unit Air Conditioners. <i>Energy Procedia</i> , 2016, 88, 552-558.	1.8	0
33	Numerical investigation on fin-tube three-fluid heat exchanger for hybrid source HVAC&R systems. <i>Applied Thermal Engineering</i> , 2016, 95, 157-164.	6.0	19
34	A study on a real-time leak detection method for pressurized liquid refrigerant pipeline based on pressure and flow rate. <i>Applied Thermal Engineering</i> , 2016, 95, 462-470.	6.0	35
35	A fully floating system for a wave energy converter with direct-driven linear generator. <i>Energy</i> , 2016, 95, 99-109.	8.8	53
36	Simulation of the Thermosyphon Free Cooling Mode in an Integrated System of Mechanical Refrigeration and Thermosyphon for Data Centers. <i>Energy Procedia</i> , 2015, 75, 1458-1463.	1.8	13

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37	Numerical investigation on integrated system of mechanical refrigeration and thermosyphon for free cooling of data centers. <i>International Journal of Refrigeration</i> , 2015, 60, 9-18.	3.4	42
38	Integrated system of mechanical refrigeration and thermosyphon for free cooling of data centers. <i>Applied Thermal Engineering</i> , 2015, 75, 185-192.	6.0	75
39	Performance characteristics around the TDC of linear compressor based on whole-process simulation. <i>Journal of Mechanical Science and Technology</i> , 2014, 28, 4163-4171.	1.5	12
40	Stroke and natural frequency estimation for linear compressor using phasor algorithm. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2014, 46, 763-774.	0.6	12
41	Performance investigation on a multi-unit heat pump for simultaneous temperature and humidity control. <i>Applied Energy</i> , 2014, 113, 883-890.	10.1	23
42	Free cooling of data centers: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 35, 171-182.	16.4	272
43	Experimental and theoretical research of a fin-tube type internally-cooled liquid desiccant dehumidifier. <i>Applied Energy</i> , 2014, 133, 127-134.	10.1	75
44	Experimental investigation on heat transfer of spray cooling with isobutane (R600a). <i>International Journal of Thermal Sciences</i> , 2014, 86, 21-27.	4.9	17
45	Strategies for data center temperature control during a cooling system outage. <i>Energy and Buildings</i> , 2014, 73, 146-152.	6.7	26
46	Experimental investigation on adsorption and electro-osmosis regeneration of macroporous silica gel desiccant. <i>Applied Energy</i> , 2014, 136, 1010-1017.	10.1	12
47	Heat transfer and flow features of Al <sub>2</sub> O <sub>3</sub> -water nanofluids flowing through a circular microchannel – Experimental results and correlations. <i>Applied Thermal Engineering</i> , 2013, 61, 86-92.	6.0	61
48	INTEGRATED STEADY-STATE AND DYNAMIC SIMULATION OF MULTI-UNIT AIR CONDITIONERS BASED ON TWO-PHASE FLUID NETWORK MODEL. <i>International Journal of Air-Conditioning and Refrigeration</i> , 2012, 20, 1250020.	0.7	2
49	Investigation on feasibility of ionic liquids used in solar liquid desiccant air conditioning system. <i>Solar Energy</i> , 2012, 86, 2718-2724.	6.1	71
50	Dynamic simulation of multi-unit air conditioners based on two-phase fluid network model. <i>Applied Thermal Engineering</i> , 2012, 40, 378-388.	6.0	23
51	Dehumidification performance of [EMIM]BF <sub>4</sub> . <i>Applied Thermal Engineering</i> , 2011, 31, 2772-2777.	6.0	53
52	Experimental investigation on performance improvement of electro-osmotic regeneration for solid desiccant. <i>Applied Energy</i> , 2011, 88, 2816-2823.	10.1	17
53	Research on Two-Phase Flow Instability in Evaporator of Refrigeration System. , 2010, , .		0
54	Instability of refrigeration system – A review. <i>Energy Conversion and Management</i> , 2010, 51, 2169-2178.	9.2	31

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55	Experimental investigation on possibility of electro-osmotic regeneration for solid desiccant. Applied Energy, 2010, 87, 2266-2272.	10.1	27
56	Dynamic simulation of variable capacity refrigeration systems under abnormal conditions. Applied Thermal Engineering, 2010, 30, 1205-1214.	6.0	40
57	Simulation model for complex refrigeration systems based on two-phase fluid network " Part II: Model application. International Journal of Refrigeration, 2008, 31, 500-509.	3.4	22
58	Simulation model for complex refrigeration systems based on two-phase fluid network " Part I: Model development. International Journal of Refrigeration, 2008, 31, 490-499.	3.4	38
59	A new inverter heat pump operated all year round with domestic hot water. Energy Conversion and Management, 2004, 45, 2255-2268.	9.2	30
60	Performance representation of variable-speed compressor for inverter air conditioners based on experimental data. International Journal of Refrigeration, 2004, 27, 805-815.	3.4	121