

Shuangquan Shao

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9178120/publications.pdf>

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	Free cooling of data centers: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 35, 171-182.	16.4	272
2	Performance representation of variable-speed compressor for inverter air conditioners based on experimental data. <i>International Journal of Refrigeration</i> , 2004, 27, 805-815.	3.4	121
3	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
4	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
5	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
6	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
7	Heat transfer and flow features of Al ₂ O ₃ -water nanofluids flowing through a circular microchannel – Experimental results and correlations. <i>Applied Thermal Engineering</i> , 2013, 61, 86-92.	6.0	61
8	Experimental and numerical investigation on a CO ₂ loop thermosyphon for free cooling of data centers. <i>Applied Thermal Engineering</i> , 2017, 111, 1083-1090.	6.0	61
9	Dehumidification performance of [EMIM]BF ₄ . <i>Applied Thermal Engineering</i> , 2011, 31, 2772-2777.	6.0	53
10	A fully floating system for a wave energy converter with direct-driven linear generator. <i>Energy</i> , 2016, 95, 99-109.	8.8	53
11	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
12	Effects of the magnetic field on the freezing process of blueberry. <i>International Journal of Refrigeration</i> , 2020, 113, 288-295.	3.4	43
13	Effects of different magnetic fields on the freezing parameters of cherry. <i>Journal of Food Engineering</i> , 2020, 278, 109949.	5.2	43
14	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
15	Dynamic simulation of variable capacity refrigeration systems under abnormal conditions. <i>Applied Thermal Engineering</i> , 2010, 30, 1205-1214.	6.0	40
16	Simulation model for complex refrigeration systems based on two-phase fluid network – Part I: Model development. <i>International Journal of Refrigeration</i> , 2008, 31, 490-499.	3.4	38
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Numerical investigation of a CO ₂ 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
20	Instability of refrigeration system – A review. <i>Energy Conversion and Management</i> , 2010, 51, 2169-2178.	9.2	31
21	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
22	A new inverter heat pump operated all year round with domestic hot water. <i>Energy Conversion and Management</i> , 2004, 45, 2255-2268.	9.2	30
23	Experimental investigation on possibility of electro-osmotic regeneration for solid desiccant. <i>Applied Energy</i> , 2010, 87, 2266-2272.	10.1	27
24	Strategies for data center temperature control during a cooling system outage. <i>Energy and Buildings</i> , 2014, 73, 146-152.	6.7	26
25	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
26	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
27	Numerical investigation on onset of significant void during water subcooled flow boiling. <i>Applied Thermal Engineering</i> , 2016, 105, 8-17.	6.0	23
28	Simulation model for complex refrigeration systems based on two-phase fluid network – Part II: Model application. <i>International Journal of Refrigeration</i> , 2008, 31, 500-509.	3.4	22
29	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
30	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
31	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
32	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
33	Investigation on transient energy consumption of cold storages: Modeling and a case study. <i>Energy</i> , 2019, 180, 1-9.	8.8	21
34	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
35	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
36	Experimental investigation on performance improvement of electro-osmotic regeneration for solid desiccant. <i>Applied Energy</i> , 2011, 88, 2816-2823.	10.1	17

#	ARTICLE	IF	CITATIONS
37	Experimental investigation on heat transfer of spray cooling with Ammonia (R600a). International Journal of Thermal Sciences, 2014, 86, 21-27.	4.9	17
38	Experimental investigation on ducted hot aisle containment system for racks cooling of data center. International Journal of Refrigeration, 2021, 127, 137-147.	3.4	15
39	Heat transfer and pressure drop characteristics of ammonia/miscible oil mixture during flow boiling in an 8 mm horizontal smooth tube. International Journal of Thermal Sciences, 2019, 138, 341-350.	4.9	14
40	Simulation of the Thermosyphon Free Cooling Mode in an Integrated System of Mechanical Refrigeration and Thermosyphon for Data Centers. Energy Procedia, 2015, 75, 1458-1463.	1.8	13
41	Integrated building envelope performance evaluation method towards nearly zero energy buildings based on operation data. Energy and Buildings, 2022, 268, 112219.	6.7	13
42	Performance characteristics around the TDC of linear compressor based on whole-process simulation. Journal of Mechanical Science and Technology, 2014, 28, 4163-4171.	1.5	12
43	Stroke and natural frequency estimation for linear compressor using phasor algorithm. International Journal of Applied Electromagnetics and Mechanics, 2014, 46, 763-774.	0.6	12
44	Experimental investigation on adsorption and electro-osmosis regeneration of macroporous silica gel desiccant. Applied Energy, 2014, 136, 1010-1017.	10.1	12
45	Development of an unsteady analytical model for predicting infiltration flow rate through the doorway of refrigerated rooms. Applied Thermal Engineering, 2018, 129, 179-186.	6.0	11
46	Measuring the transient airflow rates of the infiltration through the doorway of the cold store by using a local air velocity linear fitting method. Applied Energy, 2018, 227, 480-487.	10.1	11
47	Performance investigation on refrigeration and air conditioning systems with multi-evaporator. Sustainable Cities and Society, 2018, 39, 605-612.	10.4	9
48	An experimental investigation of the single-sided infiltration through doorways of the cold store. International Journal of Refrigeration, 2017, 73, 175-182.	3.4	8
49	Numerical investigation on the buoyancy-driven infiltration airflow through the opening of the cold store. Applied Thermal Engineering, 2017, 121, 701-711.	6.0	7
50	Energy consumption analysis of the forced-air cooling process with alternating ventilation mode for fresh horticultural produce. Energy Procedia, 2017, 142, 2642-2647.	1.8	7
51	Model simplification of scroll compressor with vapor refrigerant injection. International Journal of Green Energy, 2016, 13, 803-811.	3.8	6
52	A Local Air Velocity Measurement Method for Estimating Infiltration Heat Load through Doorway of the Cold Store. Energy Procedia, 2017, 105, 3275-3281.	1.8	4
53	Two-phase pressure drop of ammonia in horizontal small diameter tubes: Experiments and correlation. International Journal of Refrigeration, 2019, 98, 283-293.	3.4	4
54	INTEGRATED STEADY-STATE AND DYNAMIC SIMULATION OF MULTI-UNIT AIR CONDITIONERS BASED ON TWO-PHASE FLUID NETWORK MODEL. International Journal of Air-Conditioning and Refrigeration, 2012, 20, 1250020.	0.7	2

#	ARTICLE	IF	CITATIONS
55	Experimental investigation on two-phase flow pattern of ammonia inside 4 mm and 8 mm horizontal smooth tubes. International Journal of Refrigeration, 2021, 130, 253-260.	3.4	2
56	Numerical Investigation on Three-fluid Heat Exchanger for Hybrid Energy Source Heat Pumps. Energy Procedia, 2017, 105, 1692-1699.	1.8	1
57	Effect of miscible oil on flow boiling heat transfer characteristic of ammonia in a 4 mm small tube. International Journal of Heat and Mass Transfer, 2020, 147, 118978.	4.8	1
58	Research on Two-Phase Flow Instability in Evaporator of Refrigeration System. , 2010, , .		0
59	Performance Chart: A Novel Method for Performance Analysis of Multi-unit Air Conditioners. Energy Procedia, 2016, 88, 552-558.	1.8	0
60	Experimental investigation on heat transfer rate self-adjustment capacity of a novel horizontal double-pipe cooler with eccentric axis structure. International Journal of Refrigeration, 2021, 128, 43-52.	3.4	0