

# Shiming Deng

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

145 papers	3,993 citations	38 h-index	56 g-index
152 ext. papers	4,753 ext. citations	6.5 avg, IF	6.05 L-index

#	Paper	IF	Citations
145	Review on building energy performance improvement using phase change materials. <i>Energy and Buildings</i> , <b>2018</b> , 158, 776-793	7	210
144	A study on the thermal comfort in sleeping environments in the subtropicsDeveloping a thermal comfort model for sleeping environments. <i>Building and Environment</i> , <b>2008</b> , 43, 70-81	6.5	149
143	Review on improvement for air source heat pump units during frosting and defrosting. <i>Applied Energy</i> , <b>2018</b> , 211, 1150-1170	10.7	148
142	A study on the performance of the airside heat exchanger under frosting in an air source heat pump water heater/chiller unit. <i>International Journal of Heat and Mass Transfer</i> , <b>2004</b> , 47, 3745-3756	4.9	113
141	An experimental study on defrosting heat supplies and energy consumptions during a reverse cycle defrost operation for an air source heat pump. <i>Applied Thermal Engineering</i> , <b>2012</b> , 37, 380-387	5.8	94
140	A study on the thermal comfort in sleeping environments in the subtropicsMeasuring the total insulation values for the bedding systems commonly used in the subtropics. <i>Building and Environment</i> , <b>2008</b> , 43, 905-916	6.5	92
139	A simulation study on the operating performance of a solarAir source heat pump water heater. <i>Applied Thermal Engineering</i> , <b>2006</b> , 26, 1257-1265	5.8	89
138	Improved indoor thermal comfort during defrost with a novel reverse-cycle defrosting method for air source heat pumps. <i>Building and Environment</i> , <b>2010</b> , 45, 2354-2361	6.5	87
137	Experimental study on the operating characteristics of a novel low-concentrating solar photovoltaic/thermal integrated heat pump water heating system. <i>Applied Thermal Engineering</i> , <b>2011</b> , 31, 3689-3695	5.8	79
136	Application of TOPSIS method in evaluating the effects of supply vane angle of a task/ambient air conditioning system on energy utilization and thermal comfort. <i>Applied Energy</i> , <b>2016</b> , 180, 536-545	10.7	76
135	A questionnaire survey on sleeping thermal environment and bedroom air conditioning in high-rise residences in Hong Kong. <i>Energy and Buildings</i> , <b>2006</b> , 38, 1302-1307	7	71
134	A study of the reverse cycle defrosting performance on a multi-circuit outdoor coil unit in an air source heat pump [Part I: Experiments. <i>Applied Energy</i> , <b>2012</b> , 91, 122-129	10.7	70
133	Simulation of a photovoltaic/thermal heat pump system having a modified collector/evaporator. <i>Solar Energy</i> , <b>2009</b> , 83, 1967-1976	6.8	70
132	Multivariable control of indoor air temperature and humidity in a direct expansion (DX) air conditioning (A/C) system. <i>Building and Environment</i> , <b>2009</b> , 44, 1659-1667	6.5	70
131	Energy and water uses and their performance explanatory indicators in hotels in Hong Kong. <i>Energy and Buildings</i> , <b>2003</b> , 35, 775-784	7	69
130	An experimental study on even frosting performance of an air source heat pump unit with a multi-circuit outdoor coil. <i>Applied Energy</i> , <b>2016</b> , 164, 36-44	10.7	59
129	A novel defrosting control method based on the degree of refrigerant superheat for air source heat pumps. <i>International Journal of Refrigeration</i> , <b>2013</b> , 36, 2278-2288	3.8	57

128	Energy transfer procession in an air source heat pump unit during defrosting. <i>Applied Energy</i> , <b>2017</b> , 204, 679-689	10.7	56
127	An experimental study on defrosting performance for an air source heat pump unit with a horizontally installed multi-circuit outdoor coil. <i>Applied Energy</i> , <b>2016</b> , 165, 371-382	10.7	55
126	An experimental investigation on reverse-cycle defrosting performance for an air source heat pump using an electronic expansion valve. <i>Applied Energy</i> , <b>2012</b> , 97, 327-333	10.7	54
125	The effects of external wall insulation thickness on annual cooling and heating energy uses under different climates. <i>Applied Energy</i> , <b>2012</b> , 97, 313-318	10.7	51
124	An experimental study on the effects of downwards flowing of melted frost over a vertical multi-circuit outdoor coil in an air source heat pump on defrosting performance during reverse cycle defrosting. <i>Applied Thermal Engineering</i> , <b>2014</b> , 67, 258-265	5.8	50
123	A DDC-based capacity controller of a direct expansion (DX) air conditioning (A/C) unit for simultaneous indoor air temperature and humidity control [Part I: Control algorithms and preliminary controllability tests. <i>International Journal of Refrigeration</i> , <b>2007</b> , 30, 113-123	3.8	50
122	A numerical study on influences of building envelope heat gain on operating performances of a bed-based task/ambient air conditioning (TAC) system in energy saving and thermal comfort. <i>Applied Energy</i> , <b>2017</b> , 192, 213-221	10.7	49
121	Experimental investigation on an air source heat pump unit with a three-circuit outdoor coil for its reverse cycle defrosting termination temperature. <i>Applied Energy</i> , <b>2017</b> , 204, 1388-1398	10.7	49
120	Performance evaluation of a novel bed-based task/ambient conditioning (TAC) system. <i>Energy and Buildings</i> , <b>2012</b> , 44, 54-62	7	49
119	An experimental study on the inherent operational characteristics of a direct expansion (DX) air conditioning (A/C) unit. <i>Building and Environment</i> , <b>2007</b> , 42, 1-10	6.5	48
118	A study on the characteristics of nighttime bedroom cooling load in tropics and subtropics. <i>Building and Environment</i> , <b>2004</b> , 39, 1101-1114	6.5	47
117	Improving defrosting performance of cascade air source heat pump using thermal energy storage based reverse cycle defrosting method. <i>Applied Thermal Engineering</i> , <b>2017</b> , 121, 728-736	5.8	46
116	Multivariable control-oriented modeling of a direct expansion (DX) air conditioning (A/C) system. <i>International Journal of Refrigeration</i> , <b>2008</b> , 31, 841-849	3.8	45
115	Experimental investigation on reverse cycle defrosting performance improvement for an ASHP unit by evenly adjusting the refrigerant distribution in its outdoor coil. <i>Applied Thermal Engineering</i> , <b>2017</b> , 114, 611-620	5.8	43
114	A semi-empirical modeling study on the defrosting performance for an air source heat pump unit with local drainage of melted frost from its three-circuit outdoor coil. <i>Applied Energy</i> , <b>2014</b> , 136, 537-547	10.7	40
113	A numerical analysis of heat and mass transfer inside a reversibly used water cooling tower. <i>Building and Environment</i> , <b>2003</b> , 38, 91-97	6.5	40
112	Numerical analysis for maximizing effective energy storage capacity of thermal energy storage systems by enhancing heat transfer in PCM. <i>Energy and Buildings</i> , <b>2018</b> , 160, 10-18	7	40
111	A modeling study on alleviating uneven defrosting for a vertical three-circuit outdoor coil in an air source heat pump unit during reverse cycle defrosting. <i>Applied Energy</i> , <b>2016</b> , 161, 268-278	10.7	39

110	Thermal, ventilation and energy saving performance evaluations of a ductless bed-based task/ambient air conditioning (TAC) system. <i>Energy and Buildings</i> , <b>2013</b> , 66, 297-305	7	39
109	An experimental study on defrosting performance for an air source heat pump unit at different frosting evenness values with melted frost local drainage. <i>Applied Thermal Engineering</i> , <b>2016</b> , 99, 730-740	5.8	38
108	A study of the reverse cycle defrosting performance on a multi-circuit outdoor coil unit in an air source heat pump [Part II: Modeling analysis. <i>Applied Energy</i> , <b>2012</b> , 91, 274-280	10.7	38
107	The characteristics of space cooling load and indoor humidity control for residences in the subtropics. <i>Building and Environment</i> , <b>2006</b> , 41, 1137-1147	6.5	38
106	Experimental and numerical study on air flow and moisture transport in sleeping environments with a task/ambient air conditioning (TAC) system. <i>Energy and Buildings</i> , <b>2016</b> , 133, 596-604	7	36
105	An experimental study on the negative effects of downwards flow of the melted frost over a multi-circuit outdoor coil in an air source heat pump during reverse cycle defrosting. <i>Applied Energy</i> , <b>2015</b> , 138, 598-604	10.7	35
104	Computational fluid dynamics analysis of convective heat transfer coefficients for a sleeping human body. <i>Applied Thermal Engineering</i> , <b>2017</b> , 117, 385-396	5.8	34
103	Inherent correlation between the total output cooling capacity and equipment sensible heat ratio of a direct expansion air conditioning system under variable-speed operation (XXG SMD SHR DX AC unit). <i>Applied Thermal Engineering</i> , <b>2010</b> , 30, 1601-1607	5.8	34
102	Development of a dynamic model for a DX VAV air conditioning system. <i>Energy Conversion and Management</i> , <b>2006</b> , 47, 2900-2924	10.6	34
101	A new control algorithm for direct expansion air conditioning systems for improved indoor humidity control and energy efficiency. <i>Energy Conversion and Management</i> , <b>2008</b> , 49, 578-586	10.6	33
100	A DDC-based capacity controller of a direct expansion (DX) air conditioning (A/C) unit for simultaneous indoor air temperature and humidity control [Part II: Further development of the controller to improve control sensitivity. <i>International Journal of Refrigeration</i> , <b>2007</b> , 30, 124-133	3.8	33
99	A novel neural network aided fuzzy logic controller for a variable speed (VS) direct expansion (DX) air conditioning (A/C) system. <i>Applied Thermal Engineering</i> , <b>2015</b> , 78, 9-23	5.8	31
98	A study on the operational stability of a refrigeration system having a variable speed compressor. <i>International Journal of Refrigeration</i> , <b>2008</b> , 31, 1368-1374	3.8	31
97	Challenges in, and the development of, building energy saving techniques, illustrated with the example of an air source heat pump. <i>Thermal Science and Engineering Progress</i> , <b>2019</b> , 10, 337-356	3.6	30
96	An experimental study of frost distribution and growth on finned tube heat exchangers used in air source heat pump units. <i>Applied Thermal Engineering</i> , <b>2018</b> , 132, 38-51	5.8	29
95	A method for evaluating the heat and mass transfer characteristics in a reversibly used water cooling tower (RUWCT) for heat recovery. <i>International Journal of Refrigeration</i> , <b>2002</b> , 25, 552-561	3.8	29
94	The outdoor air ventilation rate in high-rise residences employing room air conditioners. <i>Building and Environment</i> , <b>2003</b> , 38, 1389-1399	6.5	29
93	Comparative studies on using RSM and TOPSIS methods to optimize residential air conditioning systems. <i>Energy</i> , <b>2018</b> , 144, 98-109	7.9	29

92	An experimental study on frosting and defrosting performances of a novel air source heat pump unit with a radiant-convective heating terminal. <i>Energy and Buildings</i> , <b>2018</b> , 163, 10-21	7	28
91	An experimental study on a novel radiant-convective heating system based on air source heat pump. <i>Energy and Buildings</i> , <b>2018</b> , 158, 812-821	7	28
90	Performance evaluation of an air conditioning system with different heights of supply outlet applied to a sleeping environment. <i>Energy and Buildings</i> , <b>2014</b> , 77, 281-291	7	28
89	Experimental investigations on destroying surface tension of melted frost for defrosting performance improvement of a multi-circuit outdoor coil. <i>Applied Thermal Engineering</i> , <b>2016</b> , 103, 1278-1288	5.8	27
88	Further study on the inherent operating characteristics of a variable speed direct expansion air conditioning system. <i>Applied Thermal Engineering</i> , <b>2014</b> , 66, 206-215	5.8	27
87	A numerical study on the effects of design/operating parameters of the radiant panel in a radiation-based task air conditioning system on indoor thermal comfort and energy saving for a sleeping environment. <i>Energy and Buildings</i> , <b>2017</b> , 151, 250-262	7	26
86	An experimental study on the effects of frosting conditions on frost distribution and growth on finned tube heat exchangers. <i>International Journal of Heat and Mass Transfer</i> , <b>2019</b> , 128, 748-761	4.9	25
85	Operating optimization for improved energy consumption of a TAC system affected by nighttime thermal loads of building envelopes. <i>Energy</i> , <b>2017</b> , 133, 491-501	7.9	24
84	A review on temperature and humidity control methods focusing on air-conditioning equipment and control algorithms applied in small-to-medium-sized buildings. <i>Energy and Buildings</i> , <b>2018</b> , 162, 163-176	7	22
83	Inherent operational characteristics and operational stability of a variable speed direct expansion air conditioning system. <i>Applied Thermal Engineering</i> , <b>2017</b> , 113, 268-277	5.8	20
82	Inherent operational characteristics aided fuzzy logic controller for a variable speed direct expansion air conditioning system for simultaneous indoor air temperature and humidity control. <i>Energy and Buildings</i> , <b>2018</b> , 158, 558-568	7	20
81	PMV-based dynamic optimization of energy consumption for a residential task/ambient air conditioning system in different climate zones. <i>Renewable Energy</i> , <b>2019</b> , 142, 41-54	8.1	19
80	A comparative study of frosting behavior on finned tube heat exchanger under different fan control modes. <i>Applied Thermal Engineering</i> , <b>2019</b> , 160, 114063	5.8	19
79	Experimental performance evaluation of a novel anti-fouling wastewater source heat pump system with a wastewater tower. <i>Applied Energy</i> , <b>2019</b> , 236, 690-699	10.7	19
78	Heating and energy storage characteristics of multi-split air source heat pump based on energy storage defrosting. <i>Applied Energy</i> , <b>2019</b> , 238, 303-310	10.7	18
77	Operating performances of an ASHP unit operated in a mild and humid region using tube-encircled photoelectric sensor based defrosting initiation strategy. <i>Energy and Buildings</i> , <b>2018</b> , 177, 140-153	7	18
76	A new performance index for constant speed air-source heat pumps based on the nominal output heating capacity and a related modeling study. <i>Energy and Buildings</i> , <b>2019</b> , 184, 205-215	7	17
75	A direct expansion based enhanced dehumidification air conditioning system for improved year-round indoor humidity control in hot and humid climates. <i>Building and Environment</i> , <b>2018</b> , 139, 95-109	6.5	17

74	Dust Loading Performance of the PTFE HEPA Media and its Comparison with the Glass Fibre HEPA Media. <i>Aerosol and Air Quality Research</i> , <b>2018</b> , 18, 1921-1931	4.6	16
73	Performance study on a low-temperature absorption-compression cascade refrigeration system driven by low-grade heat. <i>Energy Conversion and Management</i> , <b>2016</b> , 119, 379-388	10.6	16
72	An experimental study on applying PCMs to disaster-relief prefabricated temporary houses for improving internal thermal environment in summer. <i>Energy and Buildings</i> , <b>2018</b> , 179, 301-310	7	16
71	A novel proportional-derivative (PD) law based fuzzy logic principles assisted controller for simultaneously controlling indoor temperature and humidity using a direct expansion (DX) air conditioning (A/C) system. <i>International Journal of Refrigeration</i> , <b>2015</b> , 57, 239-256	3.8	15
70	A novel capacity controller for a three-evaporator air conditioning (TEAC) system for improved indoor humidity control. <i>Applied Thermal Engineering</i> , <b>2016</b> , 98, 1251-1262	5.8	15
69	Energy performance of a bedroom task/ambient air conditioning (TAC) system applied in different climate zones of China. <i>Energy</i> , <b>2018</b> , 159, 724-736	7.9	15
68	Improving degree of superheat control in a direct expansion (DX) air conditioning (A/C) system. <i>International Journal of Refrigeration</i> , <b>2010</b> , 33, 125-134	3.8	15
67	Determination of the optimal defrosting initiating time point for an ASHP unit based on the minimum loss coefficient in the nominal output heating energy. <i>Energy</i> , <b>2020</b> , 191, 116505	7.9	15
66	Simulation study on a three-evaporator air conditioning system for simultaneous indoor air temperature and humidity control. <i>Applied Energy</i> , <b>2017</b> , 207, 294-304	10.7	14
65	Further development of a thermal comfort based fuzzy logic controller for a direct expansion air conditioning system. <i>Applied Energy</i> , <b>2018</b> , 219, 312-324	10.7	14
64	An experimental study on the indoor thermal environment in prefabricated houses in the subtropics. <i>Energy and Buildings</i> , <b>2016</b> , 127, 529-539	7	14
63	A simulation study on a water chiller complete with a desuperheater and a reversibly used water cooling tower (RUWCT) for service hot water generation. <i>Building and Environment</i> , <b>2002</b> , 37, 741-751	6.5	14
62	Parameter optimization for operation of a bed-based task/ambient air conditioning (TAC) system to achieve a thermally neutral environment with minimum energy use. <i>Indoor and Built Environment</i> , <b>2017</b> , 26, 132-144	1.8	13
61	An experimental study on the performances of a radiation-based task/ambient air conditioning system applied to sleeping environments. <i>Energy and Buildings</i> , <b>2017</b> , 139, 291-301	7	13
60	Applying passive cooling measures to a temporary disaster-relief prefabricated house to improve its indoor thermal environment in summer in the subtropics. <i>Energy and Buildings</i> , <b>2017</b> , 139, 456-464	7	13
59	Numerical investigations on the effects of envelope thermal loads on energy utilization potential and thermal non-uniformity in sleeping environments. <i>Building and Environment</i> , <b>2017</b> , 124, 232-244	6.5	13
58	A Modified McQuiston model for evaluating efficiency of wet fin considering effect of condensate film moving on fin surface. <i>Energy Conversion and Management</i> , <b>2008</b> , 49, 2403-2408	10.6	13
57	An analytical technique for the optimal designs of tube-in-tank thermal energy storage systems using PCM. <i>International Journal of Heat and Mass Transfer</i> , <b>2019</b> , 128, 849-859	4.9	13



56	An experimental study on the operational characteristics of a direct expansion based enhanced dehumidification air conditioning system. <i>Applied Energy</i> , <b>2018</b> , 225, 922-933	10.7	13
55	A numerical study on optimizing the designs of applying PCMs to a disaster-relief prefabricated temporary-house (PTH) to improve its summer daytime indoor thermal environment. <i>Energy</i> , <b>2019</b> , 181, 239-249	7.9	12
54	Techno-economic analysis on frosting and defrosting operations of an air source heat pump unit applied in a typical cold city. <i>Energy and Buildings</i> , <b>2018</b> , 162, 65-76	7	12
53	A field study on the effects of outdoor coil fouling at different ambient air temperatures on the operating performances of a space cooling ASHP unit. <i>Energy and Buildings</i> , <b>2019</b> , 183, 639-649	7	12
52	A simplified numerical study on the energy performance and thermal environment of a bedroom TAC system. <i>Energy and Buildings</i> , <b>2018</b> , 166, 305-316	7	11
51	The influences of the operating characteristics of an Electronic Expansion Valve (EEV) on the operational stability of an EEV controlled direct expansion air conditioning system. <i>International Journal of Refrigeration</i> , <b>2016</b> , 69, 394-406	3.8	11
50	Developing and validating a dynamic mathematical model of a three-evaporator air conditioning (TEAC) system. <i>Applied Thermal Engineering</i> , <b>2016</b> , 100, 880-892	5.8	11
49	Development of a steady-state physical-based mathematical model for a direct expansion based enhanced dehumidification air conditioning system. <i>International Journal of Refrigeration</i> , <b>2018</b> , 91, 55-68	3.8	11
48	Experimental study of storage capacity and discharging rate of latent heat thermal energy storage units. <i>Applied Energy</i> , <b>2020</b> , 275, 115325	10.7	9
47	A new capacity controller for a direct expansion air conditioning system for operational safety and efficiency. <i>Building Services Engineering Research and Technology</i> , <b>2018</b> , 39, 21-37	2.3	9
46	The impacts of daytime external envelope heat gain/storage on the nighttime cooling load and the related mitigation measures in a bedroom in the subtropics. <i>Energy and Buildings</i> , <b>2016</b> , 118, 70-81	7	9
45	A novel hybrid steady-state model based controller for simultaneous indoor air temperature and humidity control. <i>Energy and Buildings</i> , <b>2014</b> , 68, 593-602	7	9
44	A novel characteristic index for frosting suppression based on the configuration and operation of air source heat pumps. <i>International Journal of Refrigeration</i> , <b>2020</b> , 109, 161-171	3.8	9
43	Modeling the surface filtration pressure drop of PTFE HEPA filter media for low load applications. <i>Building and Environment</i> , <b>2020</b> , 177, 106905	6.5	8
42	A novel defouling initiation method for a space cooling ASHP unit based on its measurable characteristic ambient and operating temperatures. <i>International Journal of Refrigeration</i> , <b>2019</b> , 104, 171-179	3.8	8
41	Condensate retention on a louver-fin-and-tube air cooling coil. <i>International Journal of Refrigeration</i> , <b>2007</b> , 30, 409-417	3.8	7
40	A novel design method for ASHPs considering output heating capacity and frosting suppression. <i>Energy and Buildings</i> , <b>2020</b> , 224, 110099	7	7
39	Optimization on the performances of a novel bed-based task/ambient conditioning (TAC) system. <i>Energy and Buildings</i> , <b>2017</b> , 144, 181-190	7	6

38	A simulation study on the operational stability of an EEV-controlled direct expansion air conditioning system under variable speed operation. <i>International Journal of Refrigeration</i> , <b>2019</b> , 103, 115-125	3.8	6
37	A novel defrosting initiating method for air source heat pumps based on the optimal defrosting initiating time point. <i>Energy and Buildings</i> , <b>2020</b> , 222, 110064	7	6
36	Operating performances of a space heating ASHP unit with a foul outdoor coil following a prolonged cooling operation. <i>International Journal of Refrigeration</i> , <b>2018</b> , 88, 614-625	3.8	6
35	An experimental study on the starting characteristics of an improved radiant-convective air source heat pump system. <i>Energy and Buildings</i> , <b>2020</b> , 226, 110384	7	6
34	Operating characteristics of a three-evaporator air conditioning (TEAC) system. <i>Applied Thermal Engineering</i> , <b>2016</b> , 103, 883-891	5.8	6
33	Real-time neural inverse optimal control for indoor air temperature and humidity in a direct expansion (DX) air conditioning (A/C) system. <i>International Journal of Refrigeration</i> , <b>2017</b> , 79, 196-206	3.8	5
32	An experimental investigation on the operational characteristics of a novel direct expansion based air conditioning system with a two-sectioned cooling coil. <i>International Journal of Refrigeration</i> , <b>2020</b> , 118, 131-138	3.8	5
31	Optimizing LHS system using PCM in a tube-in-tank design for emergency cooling. <i>Energy Procedia</i> , <b>2017</b> , 142, 3381-3387	2.3	5
30	AN EXPERIMENTAL STUDY ON THE DEFROSTING PERFORMANCE OF A PCM-BASED REVERSE-CYCLE DEFROSTING METHOD FOR AIR SOURCE HEAT PUMPS <b>2010</b> , 18, 327-337		5
29	Development of an optimal control method of chilled water temperature for constant-speed air-cooled water chiller air conditioning systems. <i>Applied Thermal Engineering</i> , <b>2020</b> , 180, 115802	5.8	5
28	The effect of PM2.5 air pollution on the frosting process of outdoor finned-tube evaporator. <i>Energy and Buildings</i> , <b>2020</b> , 213, 109808	7	4
27	The Influence of the Deteriorations in Living Environments on the Health of Disaster Victims Following a Natural Disaster. <i>Procedia Engineering</i> , <b>2015</b> , 121, 203-211		4
26	Research on a novel DDC-based capacity controller for the direct-expansion variable-air-volume A/C system. <i>Energy Conversion and Management</i> , <b>2010</b> , 51, 1-8	10.6	4
25	Sizing room air conditioners used in sleeping environments in the subtropics. <i>Energy Conversion and Management</i> , <b>2006</b> , 47, 1851-1856	10.6	4
24	A modeling study on a direct expansion based air conditioner having a two-sectioned cooling coil. <i>Applied Energy</i> , <b>2020</b> , 278, 115688	10.7	4
23	Adaptive control for degree of refrigerant superheat in a direct expansion air conditioning system under variable speed operation. <i>Energy Procedia</i> , <b>2019</b> , 158, 2182-2187	2.3	2
22	An experimental study on the operating performances of a novel bed-based air source heat pump (B-ASHP) system. <i>Energy and Buildings</i> , <b>2020</b> , 223, 110191	7	2
21	Effects of superheat nonlinearity on the operational stability of a direct expansion (DX) air conditioning (A/C) system. <i>Energy Procedia</i> , <b>2017</b> , 142, 1854-1859	2.3	2



20	An experimental study on achieving even-frosting for an air source heat pump using a novel dual-fan outdoor coil. <i>Energy and Buildings</i> , <b>2022</b> , 255, 111695	7	2
19	An equivalent temperature drop method for evaluating the operating performances of ASHP units jointly affected by ambient air temperature and relative humidity. <i>Energy and Buildings</i> , <b>2020</b> , 224, 110271	7.1	2
18	Field investigations on frosting suppression for variable-capacity ASHPs through optimizing their operations and configurations. <i>Energy and Buildings</i> , <b>2020</b> , 224, 110266	7	2
17	Development of evaluation indexes for assessing the regional operating performances of air source heat pump (ASHP) units operated in different climate regions based on the equivalent temperature drop method. <i>Energy and Buildings</i> , <b>2021</b> , 247, 111111	7	2
16	A numerical study on evaluating sleeping thermal comfort using a Chinese-Kang based space heating system. <i>Energy and Buildings</i> , <b>2021</b> , 248, 111174	7	2
15	Applying image recognition to frost built-up detection in air source heat pumps. <i>Energy</i> , <b>2021</b> , 233, 121094	7.4	2
14	Improved indoor air temperature and humidity control using a novel direct-expansion-based air conditioning system. <i>Journal of Building Engineering</i> , <b>2021</b> , 43, 102920	5.2	2
13	Performance analysis of air source heat pump space heating system with an adaptive control for supply water temperature. <i>Applied Thermal Engineering</i> , <b>2022</b> , 211, 118401	5.8	2
12	A novel air source heat pump powered bed-based space heating (ASHP-BBSH) system for improved indoor thermal environment. <i>Energy Procedia</i> , <b>2019</b> , 158, 2231-2236	2.3	1
11	Development of a superheat controller for mitigating hunting in a direct expansion air conditioning system. <i>Energy Procedia</i> , <b>2019</b> , 158, 2085-2091	2.3	1
10	Simulation Study on a Three-evaporator Air Conditioning System for Improved Humidity Control. <i>Energy Procedia</i> , <b>2017</b> , 105, 2139-2144	2.3	1
9	A Thermal Comfort based Controller for a Direct Expansion Air Conditioning System. <i>Energy Procedia</i> , <b>2017</b> , 142, 1817-1822	2.3	1
8	Efficient Residential Indoor Thermal Environment Control <b>2015</b> , 1-22		1
7	Energy consumption performance optimization of PTFE HEPA filter media during dust loading through compositing them with the efficient filter medium. <i>Sustainable Cities and Society</i> , <b>2022</b> , 78, 103657	10.1	1
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