

Zhimin Du

List of Publications by Year in Descending Order

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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.

47
papers

1,331
citations

22
h-index

36
g-index

47
ext. papers

1,579
ext. citations

6.3
avg, IF

4.84
L-index

#	Paper	IF	Citations
47	Diagnosis for multiple faults of chiller using ELM-KNN model enhanced by multi-label learning and specific feature combinations. <i>Building and Environment</i> , 2022 , 214, 108904	6.5	1
46	Digital twins model and its updating method for heating, ventilation and air conditioning system using broad learning system algorithm. <i>Energy</i> , 2022 , 124040	7.9	0
45	Partial domain adaption based prediction calibration methodology for fault detection and diagnosis of chillers under variable operational condition scenarios. <i>Building and Environment</i> , 2022 , 217, 109099	6.5	0
44	Across working conditions fault diagnosis for chillers based on IoT intelligent agent with deep learning model. <i>Energy and Buildings</i> , 2022 , 268, 112188	7	0
43	Multi-sensor information fusion based control for VAV systems using thermal comfort constraints. <i>Building Simulation</i> , 2021 , 14, 1047-1062	3.9	6
42	Fault detection and diagnosis for the screw chillers using multi-region XGBoost model. <i>Science and Technology for the Built Environment</i> , 2021 , 27, 608-623	1.8	6
41	Adaptive data-driven optimization of chiller loading with domain knowledge. <i>Science and Technology for the Built Environment</i> , 2021 , 27, 1269-1281	1.8	1
40	Optimal control of chilled water systems based on collaboration of the equipment's near-optimal performance maps. <i>Sustainable Energy Technologies and Assessments</i> , 2021 , 46, 101236	4.7	1
39	Transfer learning based methodology for migration and application of fault detection and diagnosis between building chillers for improving energy efficiency. <i>Building and Environment</i> , 2021 , 200, 107957	6.5	12
38	Machine learning enhanced inverse modeling method for variable speed air conditioning systems. <i>International Journal of Refrigeration</i> , 2020 , 118, 311-324	3.8	2
37	Deep learning based reference model for operational risk evaluation of screw chillers for energy efficiency. <i>Energy</i> , 2020 , 213, 118833	7.9	12
36	Fault diagnosis based operation risk evaluation for air conditioning systems in data centers. <i>Building and Environment</i> , 2019 , 163, 106319	6.5	14
35	Development and application of hardware-in-the-loop simulation for the HVAC systems. <i>Science and Technology for the Built Environment</i> , 2019 , 25, 1482-1493	1.8	1
34	Hybrid model based refrigerant charge fault estimation for the data centre air conditioning system. <i>International Journal of Refrigeration</i> , 2019 , 106, 392-406	3.8	14
33	Evaluation of operation performance of a multi-chiller system using a data-based chiller model. <i>Energy and Buildings</i> , 2018 , 172, 1-9	7	21
32	Data-driven based reliability evaluation for measurements of sensors in a vapor compression system. <i>Energy</i> , 2017 , 122, 237-248	7.9	28
31	Evaluation of the design of chilled water system based on the optimal operation performance of equipments. <i>Applied Thermal Engineering</i> , 2017 , 113, 435-448	5.8	10

30	A dual-benchmark based energy analysis method to evaluate control strategies for building HVAC systems. <i>Applied Energy</i> , 2016 , 183, 700-714	10.7	22
29	The evaluation of operation performance of HVAC system based on the ideal operation level of system. <i>Energy and Buildings</i> , 2016 , 110, 330-344	7	20
28	Effect of Common Faults on the Performance of Different Types of Vapor Compression Systems. <i>Applied Thermal Engineering</i> , 2016 , 98, 61-72	5.8	17
27	Evaluation of operation and control in HVAC (heating, ventilation and air conditioning) system using exergy analysis method. <i>Energy</i> , 2015 , 89, 372-381	7.9	28
26	Temperature sensor placement optimization for VAV control using CFDBES co-simulation strategy. <i>Building and Environment</i> , 2015 , 85, 104-113	6.5	30
25	Coordinated optimization of the variable refrigerant flow and variable air volume combined air-conditioning system in heating conditions. <i>Science and Technology for the Built Environment</i> , 2015 , 21, 904-916	1.8	4
24	Online optimal control of variable refrigerant flow and variable air volume combined air conditioning system for energy saving. <i>Applied Thermal Engineering</i> , 2015 , 80, 87-96	5.8	20
23	Optimal control of combined air conditioning system with variable refrigerant flow and variable air volume for energy saving. <i>International Journal of Refrigeration</i> , 2014 , 42, 14-25	3.8	26
22	Sensor fault detection and its efficiency analysis in air handling unit using the combined neural networks. <i>Energy and Buildings</i> , 2014 , 72, 157-166	7	53
21	Fault detection and diagnosis for buildings and HVAC systems using combined neural networks and subtractive clustering analysis. <i>Building and Environment</i> , 2014 , 73, 1-11	6.5	170
20	Simulation of variable refrigerant flow air conditioning system in heating mode combined with outdoor air processing unit. <i>Energy and Buildings</i> , 2014 , 68, 571-579	7	28
19	Control and energy simulation of variable refrigerant flow air conditioning system combined with outdoor air processing unit. <i>Applied Thermal Engineering</i> , 2014 , 64, 385-395	5.8	40
18	Optimum operating performance based online fault-tolerant control strategy for sensor faults in air conditioning systems. <i>Automation in Construction</i> , 2014 , 37, 145-154	9.6	16
17	The method of evaluating operation performance of HVAC system based on exergy analysis. <i>Energy and Buildings</i> , 2014 , 77, 332-342	7	22
16	Generic simulation model of multi-evaporator variable refrigerant flow air conditioning system for control analysis. <i>International Journal of Refrigeration</i> , 2013 , 36, 1602-1615	3.8	47
15	A hybrid model-based fault detection strategy for air handling unit sensors. <i>Energy and Buildings</i> , 2013 , 57, 132-143	7	19
14	Fault diagnosis for sensors in air handling unit based on neural network pre-processed by wavelet and fractal. <i>Energy and Buildings</i> , 2012 , 44, 7-16	7	52
13	Optimal control strategies for multi-chiller system based on probability density distribution of cooling load ratio. <i>Energy and Buildings</i> , 2011 , 43, 2813-2821	7	39

12	A hybrid FDD strategy for local system of AHU based on artificial neural network and wavelet analysis. <i>Building and Environment</i> , 2010 , 45, 2698-2708	6.5	82
11	Fault diagnosis for temperature, flow rate and pressure sensors in VAV systems using wavelet neural network. <i>Applied Energy</i> , 2009 , 86, 1624-1631	10.7	105
10	A robot fault diagnostic tool for flow rate sensors in air dampers and VAV terminals. <i>Energy and Buildings</i> , 2009 , 41, 279-286	7	42
9	Multiple faults diagnosis for sensors in air handling unit using Fisher discriminant analysis. <i>Energy Conversion and Management</i> , 2008 , 49, 3654-3665	10.6	50
8	Wavelet Neural Network-Based Fault Diagnosis in Air-Handling Units. <i>HVAC and R Research</i> , 2008 , 14, 959-973		22
7	Fault detection and diagnosis based on improved PCA with JAA method in VAV systems. <i>Building and Environment</i> , 2007 , 42, 3221-3232	6.5	75
6	Detection and diagnosis for multiple faults in VAV systems. <i>Energy and Buildings</i> , 2007 , 39, 923-934	7	23
5	Energy evaluation of optimal control strategies for central VAV chiller systems. <i>Applied Thermal Engineering</i> , 2007 , 27, 934-941	5.8	45
4	Tolerant control for multiple faults of sensors in VAV systems. <i>Energy Conversion and Management</i> , 2007 , 48, 764-777	10.6	14
3	Detection and diagnosis for sensor fault in HVAC systems. <i>Energy Conversion and Management</i> , 2007 , 48, 693-702	10.6	37
2	PCA-FDA-Based Fault Diagnosis for Sensors in VAV Systems. <i>HVAC and R Research</i> , 2007 , 13, 349-367		22
1	Fault tolerant control of outdoor air and AHU supply air temperature in VAV air conditioning systems using PCA method. <i>Applied Thermal Engineering</i> , 2006 , 26, 1226-1237	5.8	32