

Jiangyan Liu

List of Publications by Year in descending order

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29
papers

1,335
citations

304743

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Machine learning-based thermal response time ahead energy demand prediction for building heating systems. <i>Applied Energy</i> , 2018, 221, 16-27.	10.1	139
2	Deep learning-based fault diagnosis of variable refrigerant flow air-conditioning system for building energy saving. <i>Applied Energy</i> , 2018, 225, 732-745.	10.1	127
3	An improved fault detection method for incipient centrifugal chiller faults using the PCA-R-SVDD algorithm. <i>Energy and Buildings</i> , 2016, 116, 104-113.	6.7	104
4	Hourly energy consumption prediction of an office building based on ensemble learning and energy consumption pattern classification. <i>Energy and Buildings</i> , 2021, 241, 110929.	6.7	90
5	A novel efficient SVM-based fault diagnosis method for multi-split air conditioning system's refrigerant charge fault amount. <i>Applied Thermal Engineering</i> , 2016, 108, 989-998.	6.0	77
6	Data partitioning and association mining for identifying VRF energy consumption patterns under various part loads and refrigerant charge conditions. <i>Applied Energy</i> , 2017, 185, 846-861.	10.1	76
7	Transfer learning-based strategies for fault diagnosis in building energy systems. <i>Energy and Buildings</i> , 2021, 250, 111256.	6.7	61
8	Data-driven and association rule mining-based fault diagnosis and action mechanism analysis for building chillers. <i>Energy and Buildings</i> , 2020, 216, 109957.	6.7	60
9	An improved decision tree-based fault diagnosis method for practical variable refrigerant flow system using virtual sensor-based fault indicators. <i>Applied Thermal Engineering</i> , 2018, 129, 1292-1303.	6.0	58
10	Refrigerant charge fault diagnosis in the VRF system using Bayesian artificial neural network combined with ReliefF filter. <i>Applied Thermal Engineering</i> , 2017, 112, 698-706.	6.0	51
11	A refrigerant charge fault detection method for variable refrigerant flow (VRF) air-conditioning systems. <i>Applied Thermal Engineering</i> , 2016, 107, 284-293.	6.0	40
12	Sensitivity analysis for PCA-based chiller sensor fault detection. <i>International Journal of Refrigeration</i> , 2016, 63, 133-143.	3.4	39
13	A robust online refrigerant charge fault diagnosis strategy for VRF systems based on virtual sensor technique and PCA-EWMA method. <i>Applied Thermal Engineering</i> , 2017, 119, 233-243.	6.0	37
14	Identification and isolation of outdoor fouling faults using only built-in sensors in variable refrigerant flow system: A data mining approach. <i>Energy and Buildings</i> , 2017, 146, 257-270.	6.7	34
15	An effective fault diagnosis method for centrifugal chillers using associative classification. <i>Applied Thermal Engineering</i> , 2018, 136, 633-642.	6.0	34
16	Evaluation of the energy performance of variable refrigerant flow systems using dynamic energy benchmarks based on data mining techniques. <i>Applied Energy</i> , 2017, 208, 522-539.	10.1	33
17	Energy diagnosis of variable refrigerant flow (VRF) systems: Data mining technique and statistical quality control approach. <i>Energy and Buildings</i> , 2018, 175, 148-162.	6.7	29
18	An energy performance evaluation methodology for individual office building with dynamic energy benchmarks using limited information. <i>Applied Energy</i> , 2017, 206, 193-205.	10.1	27

#	ARTICLE	IF	CITATIONS
19	Energy consumption prediction for water-source heat pump system using pattern recognition-based algorithms. <i>Applied Thermal Engineering</i> , 2018, 136, 755-766.	6.0	27
20	Review on Fault Detection and Diagnosis Feature Engineering in Building Heating, Ventilation, Air Conditioning and Refrigeration Systems. <i>IEEE Access</i> , 2021, 9, 2153-2187.	4.2	26
21	Liquid floodback detection for scroll compressor in a VRF system under heating mode. <i>Applied Thermal Engineering</i> , 2017, 114, 921-930.	6.0	24
22	Knowledge discovery of data-driven-based fault diagnostics for building energy systems: A case study of the building variable refrigerant flow system. <i>Energy</i> , 2019, 174, 873-885.	8.8	23
23	Quantitative evaluation of the building energy performance based on short-term energy predictions. <i>Energy</i> , 2021, 223, 120065.	8.8	23
24	An improved stacking ensemble learning-based sensor fault detection method for building energy systems using fault-discrimination information. <i>Journal of Building Engineering</i> , 2021, 43, 102812.	3.4	21
25	Modularized PCA method combined with expert-based multivariate decoupling for FDD in VRF systems including indoor unit faults. <i>Applied Thermal Engineering</i> , 2017, 115, 744-755.	6.0	19
26	An efficient online wkNN diagnostic strategy for variable refrigerant flow system based on coupled feature selection method. <i>Energy and Buildings</i> , 2019, 183, 222-237.	6.7	17
27	Abnormal energy identification of variable refrigerant flow air-conditioning systems based on data mining techniques. <i>Applied Thermal Engineering</i> , 2019, 150, 398-411.	6.0	17
28	Improvement of the energy evaluation methodology of individual office building with dynamic energy grading system. <i>Sustainable Cities and Society</i> , 2020, 58, 102133.	10.4	13
29	Impacts of data uncertainty on the performance of data-driven-based building fault diagnosis. <i>Journal of Building Engineering</i> , 2021, 43, 103153.	3.4	9