Jiangyan Liu

List of Publications by Year
in descending order

29	1,335	346980	536525
papers	citations	22	29
		h-index	g-index

29	29	29	825
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Review on Fault Detection and Diagnosis Feature Engineering in Building Heating, Ventilation, Air Conditioning and Refrigeration Systems. IEEE Access, 2021, 9, 2153-2187.	2.6	26
2	Quantitative evaluation of the building energy performance based on short-term energy predictions. Energy, 2021, 223, 120065.	4.5	23
3	Hourly energy consumption prediction of an office building based on ensemble learning and energy consumption pattern classification. Energy and Buildings, 2021, 241, 110929.	3.1	90
4	Impacts of data uncertainty on the performance of data-driven-based building fault diagnosis. Journal of Building Engineering, 2021, 43, 103153.	1.6	9
5	An improved stacking ensemble learning-based sensor fault detection method for building energy systems using fault-discrimination information. Journal of Building Engineering, 2021, 43, 102812.	1.6	21
6	Transfer learning-based strategies for fault diagnosis in building energy systems. Energy and Buildings, 2021, 250, 111256.	3.1	61
7	Improvement of the energy evaluation methodology of individual office building with dynamic energy grading system. Sustainable Cities and Society, 2020, 58, 102133.	5.1	13
8	Data-driven and association rule mining-based fault diagnosis and action mechanism analysis for building chillers. Energy and Buildings, 2020, 216, 109957.	3.1	60
9	Knowledge discovery of data-driven-based fault diagnostics for building energy systems: A case study of the building variable refrigerant flow system. Energy, 2019, 174, 873-885.	4.5	23
10	An efficient online wkNN diagnostic strategy for variable refrigerant flow system based on coupled feature selection method. Energy and Buildings, 2019, 183, 222-237.	3.1	17
11	Abnormal energy identification of variable refrigerant flow air-conditioning systems based on data mining techniques. Applied Thermal Engineering, 2019, 150, 398-411.	3.0	17
12	Machine learning-based thermal response time ahead energy demand prediction for building heating systems. Applied Energy, 2018, 221, 16-27.	5.1	139
13	An effective fault diagnosis method for centrifugal chillers using associative classification. Applied Thermal Engineering, 2018, 136, 633-642.	3.0	34
14	Energy consumption prediction for water-source heat pump system using pattern recognition-based algorithms. Applied Thermal Engineering, 2018, 136, 755-766.	3.0	27
15	An improved decision tree-based fault diagnosis method for practical variable refrigerant flow system using virtual sensor-based fault indicators. Applied Thermal Engineering, 2018, 129, 1292-1303.	3.0	58
16	Deep learning-based fault diagnosis of variable refrigerant flow air-conditioning system for building energy saving. Applied Energy, 2018, 225, 732-745.	5.1	127
17	Energy diagnosis of variable refrigerant flow (VRF) systems: Data mining technique and statistical quality control approach. Energy and Buildings, 2018, 175, 148-162.	3.1	29
18	Modularized PCA method combined with expert-based multivariate decoupling for FDD in VRF systems including indoor unit faults. Applied Thermal Engineering, 2017, 115, 744-755.	3.0	19

#	Article	IF	Citations
19	Identification and isolation of outdoor fouling faults using only built-in sensors in variable refrigerant flow system: A data mining approach. Energy and Buildings, 2017, 146, 257-270.	3.1	34
20	A robust online refrigerant charge fault diagnosis strategy for VRF systems based on virtual sensor technique and PCA-EWMA method. Applied Thermal Engineering, 2017, 119, 233-243.	3.0	37
21	Liquid floodback detection for scroll compressor in a VRF system under heating mode. Applied Thermal Engineering, 2017, 114, 921-930.	3.0	24
22	Data partitioning and association mining for identifying VRF energy consumption patterns under various part loads and refrigerant charge conditions. Applied Energy, 2017, 185, 846-861.	5.1	76
23	Evaluation of the energy performance of variable refrigerant flow systems using dynamic energy benchmarks based on data mining techniques. Applied Energy, 2017, 208, 522-539.	5.1	33
24	An energy performance evaluation methodology for individual office building with dynamic energy benchmarks using limited information. Applied Energy, 2017, 206, 193-205.	5.1	27
25	Refrigerant charge fault diagnosis in the VRF system using Bayesian artificial neural network combined with ReliefF filter. Applied Thermal Engineering, 2017, 112, 698-706.	3.0	51
26	A refrigerant charge fault detection method for variable refrigerant flow (VRF) air-conditioning systems. Applied Thermal Engineering, 2016, 107, 284-293.	3.0	40
27	A novel efficient SVM-based fault diagnosis method for multi-split air conditioning system's refrigerant charge fault amount. Applied Thermal Engineering, 2016, 108, 989-998.	3.0	77
28	An improved fault detection method for incipient centrifugal chiller faults using the PCA-R-SVDD algorithm. Energy and Buildings, 2016, 116, 104-113.	3.1	104
29	Sensitivity analysis for PCA-based chiller sensor fault detection. International Journal of Refrigeration, 2016, 63, 133-143.	1.8	39