

Shengwei Wang

List of Publications by Year in descending order

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285
papers

14,284
citations

15495

65
h-index

30058

103
g-index

293
all docs

293
docs citations

293
times ranked

7608
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of prediction models for next-day building energy consumption and peak power demand using data mining techniques. <i>Applied Energy</i> , 2014, 127, 1-10.	5.1	414
2	Supervisory and Optimal Control of Building HVAC Systems: A Review. <i>HVAC and R Research</i> , 2008, 14, 3-32.	0.9	351
3	Intelligent building research: a review. <i>Automation in Construction</i> , 2005, 14, 143-159.	4.8	293
4	Dynamic characteristics and energy performance of buildings using phase change materials: A review. <i>Energy Conversion and Management</i> , 2009, 50, 3169-3181.	4.4	273
5	Peak load shifting control using different cold thermal energy storage facilities in commercial buildings: A review. <i>Energy Conversion and Management</i> , 2013, 71, 101-114.	4.4	259
6	Simplified building model for transient thermal performance estimation using GA-based parameter identification. <i>International Journal of Thermal Sciences</i> , 2006, 45, 419-432.	2.6	242
7	Quantitative energy performance assessment methods for existing buildings. <i>Energy and Buildings</i> , 2012, 55, 873-888.	3.1	240
8	Model-based optimal control of VAV air-conditioning system using genetic algorithm. <i>Building and Environment</i> , 2000, 35, 471-487.	3.0	225
9	Pattern recognition-based chillers fault detection method using Support Vector Data Description (SVDD). <i>Applied Energy</i> , 2013, 112, 1041-1048.	5.1	201
10	Design optimization and optimal control of grid-connected and standalone nearly/net zero energy buildings. <i>Applied Energy</i> , 2015, 155, 463-477.	5.1	186
11	AHU sensor fault diagnosis using principal component analysis method. <i>Energy and Buildings</i> , 2004, 36, 147-160.	3.1	180
12	An intelligent chiller fault detection and diagnosis methodology using Bayesian belief network. <i>Energy and Buildings</i> , 2013, 57, 278-288.	3.1	176
13	Sensor-fault detection, diagnosis and estimation for centrifugal chiller systems using principal-component analysis method. <i>Applied Energy</i> , 2005, 82, 197-213.	5.1	173
14	Parameter estimation of internal thermal mass of building dynamic models using genetic algorithm. <i>Energy Conversion and Management</i> , 2006, 47, 1927-1941.	4.4	169
15	A Dynamic User Authentication Scheme for Wireless Sensor Networks. , 0, , .		168
16	Optimal scheduling of buildings with energy generation and thermal energy storage under dynamic electricity pricing using mixed-integer nonlinear programming. <i>Applied Energy</i> , 2015, 147, 49-58.	5.1	157
17	An interactive building power demand management strategy for facilitating smart grid optimization. <i>Applied Energy</i> , 2014, 116, 297-310.	5.1	150
18	Research and application of evaporative cooling in China: A review (I) â€œ Research. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 3535-3546.	8.2	146

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19	Renewable energy system optimization of low/zero energy buildings using single-objective and multi-objective optimization methods. <i>Energy and Buildings</i> , 2015, 89, 61-75.	3.1	144
20	Supervisory and optimal control of central chiller plants using simplified adaptive models and genetic algorithm. <i>Applied Energy</i> , 2011, 88, 198-211.	5.1	142
21	Game theory based interactive demand side management responding to dynamic pricing in price-based demand response of smart grids. <i>Applied Energy</i> , 2019, 250, 118-130.	5.1	140
22	MPC-based optimal scheduling of grid-connected low energy buildings with thermal energy storages. <i>Energy and Buildings</i> , 2015, 86, 415-426.	3.1	139
23	Energy efficient control of variable speed pumps in complex building central air-conditioning systems. <i>Energy and Buildings</i> , 2009, 41, 197-205.	3.1	134
24	Exergy analysis and parametric study of concentrating type solar collectors. <i>International Journal of Thermal Sciences</i> , 2007, 46, 1304-1310.	2.6	131
25	Modelling and evaluation of cooling capacity of earth-air-pipe systems. <i>Energy Conversion and Management</i> , 2007, 48, 1462-1471.	4.4	127
26	Diagnostic Bayesian networks for diagnosing air handling units faults – part I: Faults in dampers, fans, filters and sensors. <i>Applied Thermal Engineering</i> , 2017, 111, 1272-1286.	3.0	124
27	An optimal control strategy for complex building central chilled water systems for practical and real-time applications. <i>Building and Environment</i> , 2009, 44, 1188-1198.	3.0	119
28	In-situ implementation and validation of a CO ₂ -based adaptive demand-controlled ventilation strategy in a multi-zone office building. <i>Building and Environment</i> , 2011, 46, 124-133.	3.0	119
29	Experimental study on composite silica gel supported CaCl ₂ sorbent for low grade heat storage. <i>International Journal of Thermal Sciences</i> , 2006, 45, 804-813.	2.6	115
30	Dynamic simulation of building VAV air-conditioning system and evaluation of EMCS on-line control strategies. <i>Building and Environment</i> , 1999, 34, 681-705.	3.0	114
31	A system-level fault detection and diagnosis strategy for HVAC systems involving sensor faults. <i>Energy and Buildings</i> , 2010, 42, 477-490.	3.1	114
32	A model-based online fault detection and diagnosis strategy for centrifugal chiller systems. <i>International Journal of Thermal Sciences</i> , 2005, 44, 986-999.	2.6	109
33	Dynamic simulation of a building central chilling system and evaluation of EMCS on-line control strategies. <i>Building and Environment</i> , 1998, 33, 1-20.	3.0	107
34	Experimental Validation of CO ₂ -Based Occupancy Detection for Demand-Controlled Ventilation. <i>Indoor and Built Environment</i> , 1999, 8, 377-391.	1.5	107
35	Model predictive control for thermal energy storage and thermal comfort optimization of building demand response in smart grids. <i>Applied Energy</i> , 2019, 242, 873-882.	5.1	106
36	Sensitivity analysis of design parameters and optimal design for zero/low energy buildings in subtropical regions. <i>Applied Energy</i> , 2018, 228, 1280-1291.	5.1	104

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37	A fast chiller power demand response control strategy for buildings connected to smart grid. <i>Applied Energy</i> , 2015, 137, 77-87.	5.1	103
38	Investigation of a novel thermoelectric radiant air-conditioning system. <i>Energy and Buildings</i> , 2013, 59, 123-132.	3.1	102
39	Enhanced chiller sensor fault detection, diagnosis and estimation using wavelet analysis and principal component analysis methods. <i>Applied Thermal Engineering</i> , 2008, 28, 226-237.	3.0	101
40	Bayesian network based FDD strategy for variable air volume terminals. <i>Automation in Construction</i> , 2014, 41, 106-118.	4.8	101
41	District cooling systems: Technology integration, system optimization, challenges and opportunities for applications. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 53, 253-264.	8.2	101
42	A grey-box model of next-day building thermal load prediction for energy-efficient control. <i>International Journal of Energy Research</i> , 2008, 32, 1418-1431.	2.2	100
43	Diagnostic Bayesian networks for diagnosing air handling units faults – Part II: Faults in coils and sensors. <i>Applied Thermal Engineering</i> , 2015, 90, 145-157.	3.0	100
44	Probabilistic load forecasting for buildings considering weather forecasting uncertainty and uncertain peak load. <i>Applied Energy</i> , 2019, 237, 180-195.	5.1	100
45	A statistical fault detection and diagnosis method for centrifugal chillers based on exponentially-weighted moving average control charts and support vector regression. <i>Applied Thermal Engineering</i> , 2013, 51, 560-572.	3.0	99
46	CO ₂ -Based Occupancy Detection for On-Line Outdoor Air Flow Control. <i>Indoor and Built Environment</i> , 1998, 7, 165-181.	1.5	98
47	Robust optimal design of renewable energy system in nearly/net zero energy buildings under uncertainties. <i>Applied Energy</i> , 2017, 187, 62-71.	5.1	92
48	A model-based optimal ventilation control strategy of multi-zone VAV air-conditioning systems. <i>Applied Thermal Engineering</i> , 2009, 29, 91-104.	3.0	91
49	Development of grid-responsive buildings: Opportunities, challenges, capabilities and applications of HVAC systems in non-residential buildings in providing ancillary services by fast demand responses to smart grids. <i>Applied Energy</i> , 2019, 250, 697-712.	5.1	91
50	A fault detection and diagnosis strategy of VAV air-conditioning systems for improved energy and control performances. <i>Energy and Buildings</i> , 2005, 37, 1035-1048.	3.1	87
51	Active pipe-embedded structures in buildings for utilizing low-grade energy sources: A review. <i>Energy and Buildings</i> , 2010, 42, 1567-1581.	3.1	87
52	Flexibility categorization, sources, capabilities and technologies for energy-flexible and grid-responsive buildings: State-of-the-art and future perspective. <i>Energy</i> , 2021, 219, 119598.	4.5	85
53	Detection and diagnosis of AHU sensor faults using principal component analysis method. <i>Energy Conversion and Management</i> , 2004, 45, 2667-2686.	4.4	84
54	Optimal simplified thermal models of building envelope based on frequency domain regression using genetic algorithm. <i>Energy and Buildings</i> , 2007, 39, 525-536.	3.1	83

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55	Energy performance and optimal control of air-conditioned buildings with envelopes enhanced by phase change materials. <i>Energy Conversion and Management</i> , 2011, 52, 3197-3205.	4.4	83
56	Performance analysis of hybrid ground source heat pump systems based on ANN predictive control. <i>Applied Energy</i> , 2014, 136, 1138-1144.	5.1	79
57	Integrating Building Management System and facilities management on the Internet. <i>Automation in Construction</i> , 2002, 11, 707-715.	4.8	78
58	A supervisory control strategy for building cooling water systems for practical and real time applications. <i>Energy Conversion and Management</i> , 2008, 49, 2324-2336.	4.4	78
59	A system-level fault detection and diagnosis method for low delta-T syndrome in the complex HVAC systems. <i>Applied Energy</i> , 2016, 164, 1028-1038.	5.1	77
60	Fault-tolerant control for outdoor ventilation air flow rate in buildings based on neural network. <i>Building and Environment</i> , 2002, 37, 691-704.	3.0	74
61	Sensor validation and reconstruction for building central chilling systems based on principal component analysis. <i>Energy Conversion and Management</i> , 2004, 45, 673-695.	4.4	74
62	A robust model predictive control strategy for improving the control performance of air-conditioning systems. <i>Energy Conversion and Management</i> , 2009, 50, 2650-2658.	4.4	72
63	A simplified dynamic model for existing buildings using CTF and thermal network models. <i>International Journal of Thermal Sciences</i> , 2008, 47, 1249-1262.	2.6	70
64	An isolation enhanced PCA method with expert-based multivariate decoupling for sensor FDD in air-conditioning systems. <i>Applied Thermal Engineering</i> , 2009, 29, 712-722.	3.0	66
65	Building energy research in Hong Kong: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2009, 13, 1870-1883.	8.2	66
66	Building power demand response methods toward smart grid. <i>HVAC and R Research</i> , 2014, 20, 665-687.	0.9	66
67	Development of an adaptive Smith predictor-based self-tuning PI controller for an HVAC system in a test room. <i>Energy and Buildings</i> , 2008, 40, 2244-2252.	3.1	65
68	Progress and methodologies of lifecycle commissioning of HVAC systems to enhance building sustainability. <i>Renewable and Sustainable Energy Reviews</i> , 2009, 13, 1144-1149.	8.2	64
69	Impacts of cooling load calculation uncertainties on the design optimization of building cooling systems. <i>Energy and Buildings</i> , 2015, 94, 1-9.	3.1	64
70	Supply-based feedback control strategy of air-conditioning systems for direct load control of buildings responding to urgent requests of smart grids. <i>Applied Energy</i> , 2017, 201, 419-432.	5.1	64
71	Intelligent Buildings and Building Automation. , 0, , .		64
72	Sensor fault detection and validation of VAV terminals in air conditioning systems. <i>Energy Conversion and Management</i> , 2005, 46, 2482-2500.	4.4	62

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73	A Robust Fault Detection and Diagnosis Strategy for Centrifugal Chillers. HVAC and R Research, 2006, 12, 407-428.	0.9	61
74	A model-based fault detection and diagnosis strategy for HVAC systems. International Journal of Energy Research, 2009, 33, 903-918.	2.2	61
75	Effects of impregnating variables on dynamic sorption characteristics and storage properties of composite sorbent for solar heat storage. Solar Energy, 2007, 81, 864-871.	2.9	60
76	Transient heat flow calculation for multilayer constructions using a frequency-domain regression method. Building and Environment, 2003, 38, 45-61.	3.0	59
77	A fault detection and diagnosis strategy with enhanced sensitivity for centrifugal chillers. Applied Thermal Engineering, 2011, 31, 3963-3970.	3.0	59
78	A seasonal cold storage system based on separate type heat pipe for sustainable building cooling. Renewable Energy, 2016, 85, 880-889.	4.3	59
79	Neighborhood-level coordination and negotiation techniques for managing demand-side flexibility in residential microgrids. Renewable and Sustainable Energy Reviews, 2021, 135, 110248.	8.2	59
80	Online adaptive control for optimizing variable-speed pumps of indirect water-cooled chilling systems. Applied Thermal Engineering, 2001, 21, 1083-1103.	3.0	58
81	A diagnostic tool for online sensor health monitoring in air-conditioning systems. Automation in Construction, 2006, 15, 489-503.	4.8	58
82	Robust optimal design of building cooling systems considering cooling load uncertainty and equipment reliability. Applied Energy, 2015, 159, 265-275.	5.1	58
83	A simplified power consumption model of information technology (IT) equipment in data centers for energy system real-time dynamic simulation. Applied Energy, 2018, 222, 329-342.	5.1	58
84	A robust pattern recognition-based fault detection and diagnosis (FDD) method for chillers. HVAC and R Research, 2014, 20, 798-809.	0.9	57
85	A novel air-conditioning system for proactive power demand response to smart grid. Energy Conversion and Management, 2015, 102, 239-246.	4.4	56
86	A direct load control strategy of centralized air-conditioning systems for building fast demand response to urgent requests of smart grids. Automation in Construction, 2018, 87, 74-83.	4.8	56
87	Chiller sequencing control with enhanced robustness for energy efficient operation. Energy and Buildings, 2009, 41, 1246-1255.	3.1	55
88	Model-based optimal design of active cool thermal energy storage for maximal life-cycle cost saving from demand management in commercial buildings. Applied Energy, 2017, 201, 382-396.	5.1	55
89	A simplified energy performance assessment method for existing buildings based on energy bill disaggregation. Energy and Buildings, 2012, 55, 563-574.	3.1	54
90	Evaluation of a fast power demand response strategy using active and passive building cold storages for smart grid applications. Energy Conversion and Management, 2015, 102, 227-238.	4.4	54

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91	Frequency control of air conditioners in response to real-time dynamic electricity prices in smart grids. <i>Applied Energy</i> , 2019, 242, 92-106.	5.1	54
92	Law-Based Sensor Fault Diagnosis and Validation for Building Air-Conditioning Systems. <i>HVAC and R Research</i> , 1999, 5, 353-380.	0.9	53
93	A Novel Strategy for the Fault Detection and Diagnosis of Centrifugal Chiller Systems. <i>HVAC and R Research</i> , 2009, 15, 57-75.	0.9	53
94	An uncertainty-based design optimization method for district cooling systems. <i>Energy</i> , 2016, 102, 516-527.	4.5	53
95	A multi-agent based distributed approach for optimal control of multi-zone ventilation systems considering indoor air quality and energy use. <i>Applied Energy</i> , 2020, 275, 115371.	5.1	53
96	A CFD-based test method for control of indoor environment and space ventilation. <i>Building and Environment</i> , 2010, 45, 1441-1447.	3.0	52
97	Coordinated optimal design of zero/low energy buildings and their energy systems based on multi-stage design optimization. <i>Energy</i> , 2019, 189, 116202.	4.5	52
98	Performance assessment of district cooling systems for a new development district at planning stage. <i>Applied Energy</i> , 2015, 140, 33-43.	5.1	51
99	Numerical and experimental analysis of transient supercooling effect of voltage pulse on thermoelectric element. <i>International Journal of Refrigeration</i> , 2012, 35, 1156-1165.	1.8	50
100	A multi-level energy performance diagnosis method for energy information poor buildings. <i>Energy</i> , 2015, 83, 189-203.	4.5	50
101	Optimal and robust control of outdoor ventilation airflow rate for improving energy efficiency and IAQ. <i>Building and Environment</i> , 2004, 39, 763-773.	3.0	49
102	A middleware for web service-enabled integration and interoperation of intelligent building systems. <i>Automation in Construction</i> , 2007, 16, 112-121.	4.8	49
103	Multiple ARMAX modeling scheme for forecasting air conditioning system performance. <i>Energy Conversion and Management</i> , 2007, 48, 2276-2285.	4.4	49
104	Research and applications of evaporative cooling in China: A review (II) – Systems and equipment. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 3523-3534.	8.2	49
105	A simplified dynamic model of building structures integrated with shaped-stabilized phase change materials. <i>International Journal of Thermal Sciences</i> , 2010, 49, 1722-1731.	2.6	48
106	Robust sensor fault diagnosis and validation in HVAC systems. <i>Transactions of the Institute of Measurement and Control</i> , 2002, 24, 231-262.	1.1	47
107	An online adaptive optimal control strategy for complex building chilled water systems involving intermediate heat exchangers. <i>Applied Thermal Engineering</i> , 2013, 50, 614-628.	3.0	47
108	Research and application of active hollow core slabs in building systems for utilizing low energy sources. <i>Applied Energy</i> , 2014, 116, 424-435.	5.1	47

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109	Optimal control strategy of central air-conditioning systems of buildings at morning start period for enhanced energy efficiency and peak demand limiting. <i>Energy</i> , 2018, 151, 771-781.	4.5	47
110	A game theory-based decentralized control strategy for power demand management of building cluster using thermal mass and energy storage. <i>Applied Energy</i> , 2019, 242, 809-820.	5.1	45
111	Energy flexibility quantification of grid-responsive buildings: Energy flexibility index and assessment of their effectiveness for applications. <i>Energy</i> , 2021, 221, 119756.	4.5	45
112	Neural network based prediction method for preventing condensation in chilled ceiling systems. <i>Energy and Buildings</i> , 2012, 45, 290-298.	3.1	44
113	Impacts of renewable energy system design inputs on the performance robustness of net zero energy buildings. <i>Energy</i> , 2015, 93, 1595-1606.	4.5	43
114	A real-time optimal control strategy for multi-zone VAV air-conditioning systems adopting a multi-agent based distributed optimization method. <i>Applied Energy</i> , 2021, 287, 116605.	5.1	43
115	Development and validation of an effective and robust chiller sequence control strategy using data-driven models. <i>Automation in Construction</i> , 2016, 65, 78-85.	4.8	42
116	A simplified method for optimal design of solar water heating systems based on life-cycle energy analysis. <i>Renewable Energy</i> , 2015, 74, 271-278.	4.3	41
117	Experimental investigation of contact resistance in adsorber of solar adsorption refrigeration. <i>Solar Energy</i> , 2002, 73, 177-185.	2.9	40
118	A demand limiting strategy for maximizing monthly cost savings of commercial buildings. <i>Energy and Buildings</i> , 2010, 42, 2219-2230.	3.1	40
119	Development and validation of a simplified online cooling load prediction strategy for a super high-rise building in Hong Kong. <i>Energy Conversion and Management</i> , 2013, 68, 20-27.	4.4	40
120	Building demand response and control methods for smart grids: A review. <i>Science and Technology for the Built Environment</i> , 2016, 22, 692-704.	0.8	40
121	Probabilistic approach for uncertainty-based optimal design of chiller plants in buildings. <i>Applied Energy</i> , 2017, 185, 1613-1624.	5.1	40
122	Coordinated demand-controlled ventilation strategy for energy-efficient operation in multi-zone cleanroom air-conditioning systems. <i>Building and Environment</i> , 2021, 191, 107588.	3.0	40
123	Online performance evaluation of alternative control strategies for building cooling water systems prior to in situ implementation. <i>Applied Energy</i> , 2009, 86, 712-721.	5.1	39
124	A fault-tolerant and energy efficient control strategy for primary-“secondary chilled water systems in buildings. <i>Energy and Buildings</i> , 2011, 43, 3646-3656.	3.1	39
125	Effectiveness and life-cycle cost-benefit analysis of active cold storages for building demand management for smart grid applications. <i>Applied Energy</i> , 2015, 147, 523-535.	5.1	39
126	Robust optimal design of district cooling systems and the impacts of uncertainty and reliability. <i>Energy and Buildings</i> , 2016, 122, 11-22.	3.1	39

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127	A novel and simple building load calculation model for building and system dynamic simulation. <i>Applied Thermal Engineering</i> , 2001, 21, 683-702.	3.0	38
128	Investigation on intelligent building standard communication protocols and application of IT technologies. <i>Automation in Construction</i> , 2004, 13, 607-619.	4.8	38
129	Development and In-situ validation of a multi-zone demand-controlled ventilation strategy using a limited number of sensors. <i>Building and Environment</i> , 2012, 57, 28-37.	3.0	38
130	The step-change cooling performance of miniature thermoelectric module for pulse laser. <i>Energy Conversion and Management</i> , 2014, 80, 39-45.	4.4	38
131	A novel operation approach for the energy efficiency improvement of the HVAC system in office spaces through real-time big data analytics. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 127, 109885.	8.2	37
132	Robust optimal design of chilled water systems in buildings with quantified uncertainty and reliability for minimized life-cycle cost. <i>Energy and Buildings</i> , 2016, 126, 159-169.	3.1	36
133	Sensor Fault Detection and Diagnosis of Air-Handling Units Using a Condition-Based Adaptive Statistical Method. <i>HVAC and R Research</i> , 2006, 12, 127-150.	0.9	35
134	In situ performance comparison and evaluation of three chiller sequencing control strategies in a super high-rise building. <i>Energy and Buildings</i> , 2013, 61, 333-343.	3.1	35
135	Robust MPC for temperature control of air-conditioning systems concerning on constraints and multitype uncertainties. <i>Building Services Engineering Research and Technology</i> , 2010, 31, 39-55.	0.9	34
136	Enhancing the performance of large primary-secondary chilled water systems by using bypass check valve. <i>Energy</i> , 2011, 36, 268-276.	4.5	34
137	Impacts of technology-guided occupant behavior on air-conditioning system control and building energy use. <i>Building Simulation</i> , 2021, 14, 209-217.	3.0	34
138	A power limiting control strategy based on adaptive utility function for fast demand response of buildings in smart grids. <i>Science and Technology for the Built Environment</i> , 2016, 22, 810-819.	0.8	33
139	Adaptive full-range decoupled ventilation strategy and air-conditioning systems for cleanrooms and buildings requiring strict humidity control and their performance evaluation. <i>Energy</i> , 2019, 168, 883-896.	4.5	33
140	Valve fault detection and diagnosis based on CMAC neural networks. <i>Energy and Buildings</i> , 2004, 36, 599-610.	3.1	32
141	A data fusion scheme for building automation systems of building central chilling plants. <i>Automation in Construction</i> , 2009, 18, 302-309.	4.8	32
142	A hierarchical optimal control strategy for continuous demand response of building HVAC systems to provide frequency regulation service to smart power grids. <i>Energy</i> , 2021, 230, 120741.	4.5	32
143	Multiplexed optimization for complex air conditioning systems. <i>Building and Environment</i> , 2013, 65, 99-108.	3.0	30
144	Energy efficient design and control of cleanroom environment control systems in subtropical regions – A comparative analysis and on-site validation. <i>Applied Energy</i> , 2017, 204, 582-595.	5.1	30

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145	Experimental study on desulfurization efficiency and gas-liquid mass transfer in a new liquid-screen desulfurization system. <i>Applied Energy</i> , 2010, 87, 1505-1512.	5.1	28
146	A robust control strategy for combining DCV control with economizer control. <i>Energy Conversion and Management</i> , 2002, 43, 2569-2588.	4.4	27
147	A simplified analytical model to evaluate the impact of radiant heat on building cooling load. <i>Applied Thermal Engineering</i> , 2015, 77, 30-41.	3.0	27
148	An agent-based distributed real-time optimal control strategy for building HVAC systems for applications in the context of future IoT-based smart sensor networks. <i>Applied Energy</i> , 2020, 274, 115322.	5.1	27
149	A model-based predictive dispatch strategy for unlocking and optimizing the building energy flexibilities of multiple resources in electricity markets of multiple services. <i>Applied Energy</i> , 2022, 305, 117889.	5.1	27
150	A new procedure for calculating periodic response factors based on frequency domain regression method. <i>International Journal of Thermal Sciences</i> , 2005, 44, 382-392.	2.6	26
151	Frequency-domain regression method for estimating CTF models of building multilayer constructions. <i>Applied Mathematical Modelling</i> , 2001, 25, 579-592.	2.2	25
152	Numerical analysis and evaluation of an open-type thermal storage system using composite sorbents. <i>International Journal of Heat and Mass Transfer</i> , 2009, 52, 5262-5265.	2.5	25
153	Online sensor fault diagnosis for robust chiller sequencing control. <i>International Journal of Thermal Sciences</i> , 2010, 49, 589-602.	2.6	25
154	Performance enhancement of a complex chilled water system using a check valve: Experimental validation. <i>Applied Thermal Engineering</i> , 2010, 30, 2827-2832.	3.0	25
155	Robust optimal design of distributed energy systems based on life-cycle performance analysis using a probabilistic approach considering uncertainties of design inputs and equipment degradations. <i>Applied Energy</i> , 2018, 231, 615-627.	5.1	25
156	Optimal design of data center cooling systems concerning multi-chiller system configuration and component selection for energy-efficient operation and maximized free-cooling. <i>Renewable Energy</i> , 2019, 143, 1717-1731.	4.3	25
157	Robust Model Predictive Control of VAV Air-Handling Units Concerning Uncertainties and Constraints. <i>HVAC and R Research</i> , 2010, 16, 15-33.	0.9	24
158	Diagnosis of the low temperature difference syndrome in the chilled water system of a super high-rise building: A case study. <i>Applied Energy</i> , 2012, 98, 597-606.	5.1	24
159	A flexible-segment-model-based dynamics calculation method for free hanging marine risers in re-entry. <i>China Ocean Engineering</i> , 2012, 26, 139-152.	0.6	24
160	Online fault detection and robust control of condenser cooling water systems in building central chiller plants. <i>Energy and Buildings</i> , 2011, 43, 153-165.	3.1	23
161	Life-cycle cost benefit analysis and optimal design of small scale active storage system for building demand limiting. <i>Energy</i> , 2014, 73, 787-800.	4.5	23
162	Cooling Supply-based HVAC System Control for Fast Demand Response of Buildings to Urgent Requests of Smart Grids. <i>Energy Procedia</i> , 2016, 103, 34-39.	1.8	23

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163	In-situ implementation and evaluation of an online robust pump speed control strategy for avoiding low delta- T syndrome in complex chilled water systems of high-rise buildings. <i>Applied Energy</i> , 2016, 171, 541-554.	5.1	23
164	A risk-based robust optimal chiller sequencing control strategy for energy-efficient operation considering measurement uncertainties. <i>Applied Energy</i> , 2020, 280, 115983.	5.1	23
165	Experimental study on the dynamics, quality and impacts of using variable-speed pumps in buildings for frequency regulation of smart power grids. <i>Energy</i> , 2020, 199, 117406.	4.5	23
166	Model-based multi-objective predictive scheduling and real-time optimal control of energy systems in zero/low energy buildings using a game theory approach. <i>Automation in Construction</i> , 2020, 113, 103139.	4.8	23
167	Use of uncertainty polytope to describe constraint processes with uncertain time-delay for robust model predictive control applications. <i>ISA Transactions</i> , 2009, 48, 503-511.	3.1	22
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