Shengwei Wang

List of Publications by Citations

278 papers	10,639 citations	58 h-index	88 g-index
289 ext. papers	12,459 ext. citations	6.9 avg, IF	7.08 L-index

#	Paper	IF	Citations
278	Development of prediction models for next-day building energy consumption and peak power demand using data mining techniques. *Applied Energy*, **2014**, 127, 1-10	10.7	299
277	Supervisory and Optimal Control of Building HVAC Systems: A Review. *HVAC and R Research*, **2008**, 14, 3-32		261
276	Dynamic characteristics and energy performance of buildings using phase change materials: A review. *Energy Conversion and Management*, **2009**, 50, 3169-3181	10.6	234
275	Intelligent building research: a review. *Automation in Construction*, **2005**, 14, 143-159	9.6	210
274	Peak load shifting control using different cold thermal energy storage facilities in commercial buildings: A review. *Energy Conversion and Management*, **2013**, 71, 101-114	10.6	205
273	Simplified building model for transient thermal performance estimation using GA-based parameter identification. *International Journal of Thermal Sciences*, **2006**, 45, 419-432	4.1	194
272	Quantitative energy performance assessment methods for existing buildings. *Energy and Buildings*, **2012**, 55, 873-888	7	187
271	Model-based optimal control of VAV air-conditioning system using genetic algorithm. *Building and Environment*, **2000**, 35, 471-487	6.5	178
270	Design optimization and optimal control of grid-connected and standalone nearly/net zero energy buildings. *Applied Energy*, **2015**, 155, 463-477	10.7	149
269	AHU sensor fault diagnosis using principal component analysis method. *Energy and Buildings*, **2004**, 36, 147-160	7	147
268	Parameter estimation of internal thermal mass of building dynamic models using genetic algorithm. *Energy Conversion and Management*, **2006**, 47, 1927-1941	10.6	142
267	Sensor-fault detection, diagnosis and estimation for centrifugal chiller systems using principal-component analysis method. *Applied Energy*, **2005**, 82, 197-213	10.7	138
266	A dynamic user authentication scheme for wireless sensor networks		134
265	Pattern recognition-based chillers fault detection method using Support Vector Data Description (SVDD). *Applied Energy*, **2013**, 112, 1041-1048	10.7	131
264	An intelligent chiller fault detection and diagnosis methodology using Bayesian belief network. *Energy and Buildings*, **2013**, 57, 278-288	7	130
263	Optimal scheduling of buildings with energy generation and thermal energy storage under dynamic electricity pricing using mixed-integer nonlinear programming. *Applied Energy*, **2015**, 147, 49-58	10.7	117
262	An interactive building power demand management strategy for facilitating smart grid optimization. *Applied Energy*, **2014**, 116, 297-310	10.7	115

261	Supervisory and optimal control of central chiller plants using simplified adaptive models and genetic algorithm. *Applied Energy*, **2011**, 88, 198-211	10.7	115
260	Renewable energy system optimization of low/zero energy buildings using single-objective and multi-objective optimization methods. *Energy and Buildings*, **2015**, 89, 61-75	7	113
259	Exergy analysis and parametric study of concentrating type solar collectors. *International Journal of Thermal Sciences*, **2007**, 46, 1304-1310	4.1	108
258	Modelling and evaluation of cooling capacity of earth□air□pipe systems. *Energy Conversion and Management*, **2007**, 48, 1462-1471	10.6	105
257	MPC-based optimal scheduling of grid-connected low energy buildings with thermal energy storages. *Energy and Buildings*, **2015**, 86, 415-426	7	103
256	Dynamic simulation of building VAV air-conditioning system and evaluation of EMCS on-line control strategies. *Building and Environment*, **1999**, 34, 681-705	6.5	102
255	In-situ implementation and validation of a CO2-based adaptive demand-controlled ventilation strategy in a multi-zone office building. *Building and Environment*, **2011**, 46, 124-133	6.5	101
254	Research and application of evaporative cooling in China: A review (I) □Research. *Renewable and Sustainable Energy Reviews*, **2012**, 16, 3535-3546	16.2	98
253	An optimal control strategy for complex building central chilled water systems for practical and real-time applications. *Building and Environment*, **2009**, 44, 1188-1198	6.5	97
252	Energy efficient control of variable speed pumps in complex building central air-conditioning systems. *Energy and Buildings*, **2009**, 41, 197-205	7	97
251	Experimental study on composite silica gel supported CaCl2 sorbent for low grade heat storage. *International Journal of Thermal Sciences*, **2006**, 45, 804-813	4.1	96
250	Dynamic simulation of a building central chilling system and evaluation of EMCS on-line control strategies. *Building and Environment*, **1998**, 33, 1-20	6.5	92
249	A model-based online fault detection and diagnosis strategy for centrifugal chiller systems. *International Journal of Thermal Sciences*, **2005**, 44, 986-999	4.1	91
248	A system-level fault detection and diagnosis strategy for HVAC systems involving sensor faults. *Energy and Buildings*, **2010**, 42, 477-490	7	88
247	A grey-box model of next-day building thermal load prediction for energy-efficient control. *International Journal of Energy Research*, **2008**, 32, 1418-1431	4.5	88
246	Diagnostic Bayesian networks for diagnosing air handling units faults □part I: Faults in dampers, fans, filters and sensors. *Applied Thermal Engineering*, **2017**, 111, 1272-1286	5.8	84
245	A fast chiller power demand response control strategy for buildings connected to smart grid. *Applied Energy*, **2015**, 137, 77-87	10.7	82
244	Investigation of a novel thermoelectric radiant air-conditioning system. *Energy and Buildings*, **2013**, 59, 123-132	7	81

243	Diagnostic Bayesian networks for diagnosing air handling units faults Part II: Faults in coils and sensors. *Applied Thermal Engineering*, **2015**, 90, 145-157	5.8	79
242	Experimental Validation of CO2-Based Occupancy Detection for Demand-Controlled Ventilation. *Indoor and Built Environment*, **1999**, 8, 377-391	1.8	79
241	Enhanced chiller sensor fault detection, diagnosis and estimation using wavelet analysis and principal component analysis methods. *Applied Thermal Engineering*, **2008**, 28, 226-237	5.8	78
240	Game theory based interactive demand side management responding to dynamic pricing in price-based demand response of smart grids. *Applied Energy*, **2019**, 250, 118-130	10.7	76
239	Robust optimal design of renewable energy system in nearly/net zero energy buildings under uncertainties. *Applied Energy*, **2017**, 187, 62-71	10.7	76
238	A model-based optimal ventilation control strategy of multi-zone VAV air-conditioning systems. *Applied Thermal Engineering*, **2009**, 29, 91-104	5.8	76
237	CO2-Based Occupancy Detection for On-Line Outdoor Air Flow Control. *Indoor and Built Environment*, **1998**, 7, 165-181	1.8	76
236	District cooling systems: Technology integration, system optimization, challenges and opportunities for applications. *Renewable and Sustainable Energy Reviews*, **2016**, 53, 253-264	16.2	75
235	Energy performance and optimal control of air-conditioned buildings with envelopes enhanced by phase change materials. *Energy Conversion and Management*, **2011**, 52, 3197-3205	10.6	74
234	Optimal simplified thermal models of building envelope based on frequency domain regression using genetic algorithm. *Energy and Buildings*, **2007**, 39, 525-536	7	72
233	Bayesian network based FDD strategy for variable air volume terminals. *Automation in Construction*, **2014**, 41, 106-118	9.6	71
232	A fault detection and diagnosis strategy of VAV air-conditioning systems for improved energy and control performances. *Energy and Buildings*, **2005**, 37, 1035-1048	7	69
231	Model predictive control for thermal energy storage and thermal comfort optimization of building demand response in smart grids. *Applied Energy*, **2019**, 242, 873-882	10.7	68
230	Detection and diagnosis of AHU sensor faults using principal component analysis method. *Energy Conversion and Management*, **2004**, 45, 2667-2686	10.6	67
229	A statistical fault detection and diagnosis method for centrifugal chillers based on exponentially-weighted moving average control charts and support vector regression. *Applied Thermal Engineering*, **2013**, 51, 560-572	5.8	66
228	Sensitivity analysis of design parameters and optimal design for zero/low energy buildings in subtropical regions. *Applied Energy*, **2018**, 228, 1280-1291	10.7	65
227	Performance analysis of hybrid ground source heat pump systems based on ANN predictive control. *Applied Energy*, **2014**, 136, 1138-1144	10.7	64
226	Active pipe-embedded structures in buildings for utilizing low-grade energy sources: A review. *Energy and Buildings*, **2010**, 42, 1567-1581	7	63

225	A supervisory control strategy for building cooling water systems for practical and real time applications. *Energy Conversion and Management*, **2008**, 49, 2324-2336	10.6	63
224	A robust model predictive control strategy for improving the control performance of air-conditioning systems. *Energy Conversion and Management*, **2009**, 50, 2650-2658	10.6	61
223	Fault-tolerant control for outdoor ventilation air flow rate in buildings based on neural network. *Building and Environment*, **2002**, 37, 691-704	6.5	60
222	A simplified dynamic model for existing buildings using CTF and thermal network models. *International Journal of Thermal Sciences*, **2008**, 47, 1249-1262	4.1	59
221	An isolation enhanced PCA method with expert-based multivariate decoupling for sensor FDD in air-conditioning systems. *Applied Thermal Engineering*, **2009**, 29, 712-722	5.8	58
220	Integrating Building Management System and facilities management on the Internet. *Automation in Construction*, **2002**, 11, 707-715	9.6	58
219	Probabilistic load forecasting for buildings considering weather forecasting uncertainty and uncertain peak load. *Applied Energy*, **2019**, 237, 180-195	10.7	58
218	A system-level fault detection and diagnosis method for low delta-T syndrome in the complex HVAC systems. *Applied Energy*, **2016**, 164, 1028-1038	10.7	57
217	Building energy research in Hong Kong: A review. *Renewable and Sustainable Energy Reviews*, **2009**, 13, 1870-1883	16.2	55
216	Sensor validation and reconstruction for building central chilling systems based on principal component analysis. *Energy Conversion and Management*, **2004**, 45, 673-695	10.6	53
215	Development of an adaptive Smith predictor-based self-tuning PI controller for an HVAC system in a test room. *Energy and Buildings*, **2008**, 40, 2244-2252	7	52
214	Transient heat flow calculation for multilayer constructions using a frequency-domain regression method. *Building and Environment*, **2003**, 38, 45-61	6.5	52
213	Progress and methodologies of lifecycle commissioning of HVAC systems to enhance building sustainability. *Renewable and Sustainable Energy Reviews*, **2009**, 13, 1144-1149	16.2	51
212	Sensor fault detection and validation of VAV terminals in air conditioning systems. *Energy Conversion and Management*, **2005**, 46, 2482-2500	10.6	51
211	Building power demand response methods toward smart grid. *HVAC and R Research*, **2014**, 20, 665-687		50
210	Effects of impregnating variables on dynamic sorption characteristics and storage properties of composite sorbent for solar heat storage. *Solar Energy*, **2007**, 81, 864-871	6.8	50
209	A simplified energy performance assessment method for existing buildings based on energy bill disaggregation. *Energy and Buildings*, **2012**, 55, 563-574	7	49
208	Impacts of cooling load calculation uncertainties on the design optimization of building cooling systems. *Energy and Buildings*, **2015**, 94, 1-9	7	48

207	A model-based fault detection and diagnosis strategy for HVAC systems. *International Journal of Energy Research*, **2009**, 33, 903-918	4.5	48
206	A diagnostic tool for online sensor health monitoring in air-conditioning systems. *Automation in Construction*, **2006**, 15, 489-503	9.6	48
205	Online adaptive control for optimizing variable-speed pumps of indirect water-cooled chilling systems. *Applied Thermal Engineering*, **2001**, 21, 1083-1103	5.8	48
204	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. *Applied Energy*, **2019**, 250, 697-712	10.7	47
203	A Robust Fault Detection and Diagnosis Strategy for Centrifugal Chillers. *HVAC and R Research*, **2006**, 12, 407-428		47
202	A seasonal cold storage system based on separate type heat pipe for sustainable building cooling. *Renewable Energy*, **2016**, 85, 880-889	8.1	46
201	Robust optimal design of building cooling systems considering cooling load uncertainty and equipment reliability. *Applied Energy*, **2015**, 159, 265-275	10.7	45
200	A novel air-conditioning system for proactive power demand response to smart grid. *Energy Conversion and Management*, **2015**, 102, 239-246	10.6	44
199	A middleware for web service-enabled integration and interoperation of intelligent building systems. *Automation in Construction*, **2007**, 16, 112-121	9.6	44
198	Numerical and experimental analysis of transient supercooling effect of voltage pulse on thermoelectric element. *International Journal of Refrigeration*, **2012**, 35, 1156-1165	3.8	43
197	Multiple ARMAX modeling scheme for forecasting air conditioning system performance. *Energy Conversion and Management*, **2007**, 48, 2276-2285	10.6	43
196	Supply-based feedback control strategy of air-conditioning systems for direct load control of buildings responding to urgent requests of smart grids. *Applied Energy*, **2017**, 201, 419-432	10.7	42
195	A CFD-based test method for control of indoor environment and space ventilation. *Building and Environment*, **2010**, 45, 1441-1447	6.5	42
194	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	10.6	41
193	A robust pattern recognition-based fault detection and diagnosis (FDD) method for chillers. *HVAC and R Research*, **2014**, 20, 798-809		41
192	A fault detection and diagnosis strategy with enhanced sensitivity for centrifugal chillers. *Applied Thermal Engineering*, **2011**, 31, 3963-3970	5.8	41
191	Chiller sequencing control with enhanced robustness for energy efficient operation. *Energy and Buildings*, **2009**, 41, 1246-1255	7	41
190	Optimal and robust control of outdoor ventilation airflow rate for improving energy efficiency and IAQ. *Building and Environment*, **2004**, 39, 763-773	6.5	41

189	Law-Based Sensor Fault Diagnosis and Validation for Building Air-Conditioning Systems. *HVAC and R Research*, **1999**, 5, 353-380		40
188	Research and application of active hollow core slabs in building systems for utilizing low energy sources. *Applied Energy*, **2014**, 116, 424-435	10.7	39
187	An online adaptive optimal control strategy for complex building chilled water systems involving intermediate heat exchangers. *Applied Thermal Engineering*, **2013**, 50, 614-628	5.8	39
186	Robust sensor fault diagnosis and validation in HVAC systems. *Transactions of the Institute of Measurement and Control*, **2002**, 24, 231-262	1.8	39
185	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	10.7	38
184	An uncertainty-based design optimization method for district cooling systems. *Energy*, **2016**, 102, 516-527	7.9	38
183	A simplified dynamic model of building structures integrated with shaped-stabilized phase change materials. *International Journal of Thermal Sciences*, **2010**, 49, 1722-1731	4.1	38
182	Neural network based prediction method for preventing condensation in chilled ceiling systems. *Energy and Buildings*, **2012**, 45, 290-298	7	37
181	A multi-level energy performance diagnosis method for energy information poor buildings. *Energy*, **2015**, 83, 189-203	7.9	35
180	Performance assessment of district cooling systems for a new development district at planning stage. *Applied Energy*, **2015**, 140, 33-43	10.7	35
179	Robust optimal design of chilled water systems in buildings with quantified uncertainty and reliability for minimized life-cycle cost. *Energy and Buildings*, **2016**, 126, 159-169	7	35
178	Experimental investigation of contact resistance in adsorber of solar adsorption refrigeration. *Solar Energy*, **2002**, 73, 177-185	6.8	35
177	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	9.6	35
176	Effectiveness and life-cycle cost-benefit analysis of active cold storages for building demand management for smart grid applications. *Applied Energy*, **2015**, 147, 523-535	10.7	34
175	Research and applications of evaporative cooling in China: A review (II)Systems and equipment. *Renewable and Sustainable Energy Reviews*, **2012**, 16, 3523-3534	16.2	34
174	Development and validation of a simplified online cooling load prediction strategy for a super high-rise building in Hong Kong. *Energy Conversion and Management*, **2013**, 68, 20-27	10.6	34
173	Development and In-situ validation of a multi-zone demand-controlled ventilation strategy using a limited number of sensors. *Building and Environment*, **2012**, 57, 28-37	6.5	34
172	A demand limiting strategy for maximizing monthly cost savings of commercial buildings. *Energy and Buildings*, **2010**, 42, 2219-2230	7	34

171	Impacts of renewable energy system design inputs on the performance robustness of net zero energy buildings. *Energy*, **2015**, 93, 1595-1606	7.9	33
170	A novel and simple building load calculation model for building and system dynamic simulation. *Applied Thermal Engineering*, **2001**, 21, 683-702	5.8	33
169	Intelligent Buildings and Building Automation		33
168	Frequency control of air conditioners in response to real-time dynamic electricity prices in smart grids. *Applied Energy*, **2019**, 242, 92-106	10.7	32
167	A Novel Strategy for the Fault Detection and Diagnosis of Centrifugal Chiller Systems. *HVAC and R Research*, **2009**, 15, 57-75		32
166	A simplified method for optimal design of solar water heating systems based on life-cycle energy analysis. *Renewable Energy*, **2015**, 74, 271-278	8.1	31
165	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	10.7	31
164	Coordinated optimal design of zero/low energy buildings and their energy systems based on multi-stage design optimization. *Energy*, **2019**, 189, 116202	7.9	30
163	Online performance evaluation of alternative control strategies for building cooling water systems prior to in situ implementation. *Applied Energy*, **2009**, 86, 712-721	10.7	30
162	Investigation on intelligent building standard communication protocols and application of IT technologies. *Automation in Construction*, **2004**, 13, 607-619	9.6	30
161	Probabilistic approach for uncertainty-based optimal design of chiller plants in buildings. *Applied Energy*, **2017**, 185, 1613-1624	10.7	29
160	The step-change cooling performance of miniature thermoelectric module for pulse laser. *Energy Conversion and Management*, **2014**, 80, 39-45	10.6	29
159	Robust MPC for temperature control of air-conditioning systems concerning on constraints and multitype uncertainties. *Building Services Engineering Research and Technology*, **2010**, 31, 39-55	2.3	29
158	Enhancing the performance of large primary-secondary chilled water systems by using bypass check valve. *Energy*, **2011**, 36, 268-276	7.9	29
157	Robust optimal design of district cooling systems and the impacts of uncertainty and reliability. *Energy and Buildings*, **2016**, 122, 11-22	7	29
156	Optimal control strategy of central air-conditioning systems of buildings at morning start period for enhanced energy efficiency and peak demand limiting. *Energy*, **2018**, 151, 771-781	7.9	28
155	Development and validation of an effective and robust chiller sequence control strategy using data-driven models. *Automation in Construction*, **2016**, 65, 78-85	9.6	28
154	In situ performance comparison and evaluation of three chiller sequencing control strategies in a super high-rise building. *Energy and Buildings*, **2013**, 61, 333-343	7	28

153	A fault-tolerant and energy efficient control strategy for primary□secondary chilled water systems in buildings. *Energy and Buildings*, **2011**, 43, 3646-3656	7	28
152	A multi-agent based distributed approach for optimal control of multi-zone ventilation systems considering indoor air quality and energy use. *Applied Energy*, **2020**, 275, 115371	10.7	27
151	A power limiting control strategy based on adaptive utility function for fast demand response of buildings in smart grids. *Science and Technology for the Built Environment*, **2016**, 22, 810-819	1.8	27
150	A data fusion scheme for building automation systems of building central chilling plants. *Automation in Construction*, **2009**, 18, 302-309	9.6	27
149	Multiplexed optimization for complex air conditioning systems. *Building and Environment*, **2013**, 65, 99-108	6.5	25
148	Sensor Fault Detection and Diagnosis of Air-Handling Units Using a Condition-Based Adaptive Statistical Method. *HVAC and R Research*, **2006**, 12, 127-150		25
147	Coordinated demand-controlled ventilation strategy for energy-efficient operation in multi-zone cleanroom air-conditioning systems. *Building and Environment*, **2021**, 191, 107588	6.5	25
146	A game theory-based decentralized control strategy for power demand management of building cluster using thermal mass and energy storage. *Applied Energy*, **2019**, 242, 809-820	10.7	24
145	Building demand response and control methods for smart grids: A review. *Science and Technology for the Built Environment*, **2016**, 22, 692-704	1.8	24
144	Energy efficient design and control of cleanroom environment control systems in subtropical regions □A comparative analysis and on-site validation. *Applied Energy*, **2017**, 204, 582-595	10.7	24
143	Numerical analysis and evaluation of an open-type thermal storage system using composite sorbents. *International Journal of Heat and Mass Transfer*, **2009**, 52, 5262-5265	4.9	24
142	Valve fault detection and diagnosis based on CMAC neural networks. *Energy and Buildings*, **2004**, 36, 599-610	7	24
141	Adaptive full-range decoupled ventilation strategy and air-conditioning systems for cleanrooms and buildings requiring strict humidity control and their performance evaluation. *Energy*, **2019**, 168, 883-896	7.9	24
140	A simplified analytical model to evaluate the impact of radiant heat on building cooling load. *Applied Thermal Engineering*, **2015**, 77, 30-41	5.8	23
139	Frequency-domain regression method for estimating CTF models of building multilayer constructions. *Applied Mathematical Modelling*, **2001**, 25, 579-592	4.5	23
138	Performance enhancement of a complex chilled water system using a check valve: Experimental validation. *Applied Thermal Engineering*, **2010**, 30, 2827-2832	5.8	22
137	A robust control strategy for combining DCV control with economizer control. *Energy Conversion and Management*, **2002**, 43, 2569-2588	10.6	22
136	Use of uncertainty polytope to describe constraint processes with uncertain time-delay for robust model predictive control applications. *ISA Transactions*, **2009**, 48, 503-11	5.5	21

135	Online sensor fault diagnosis for robust chiller sequencing control. *International Journal of Thermal Sciences*, **2010**, 49, 589-602	4.1	21
134	A new procedure for calculating periodic response factors based on frequency domain regression method. *International Journal of Thermal Sciences*, **2005**, 44, 382-392	4.1	21
133	Experimental study on desulfurization efficiency and gas–liquid mass transfer in a new liquid-screen desulfurization system. *Applied Energy*, **2010**, 87, 1505-1512	10.7	20
132	Flexibility categorization, sources, capabilities and technologies for energy-flexible and grid-responsive buildings: State-of-the-art and future perspective. *Energy*, **2021**, 219, 119598	7.9	20
131	Life-cycle cost benefit analysis and optimal design of small scale active storage system for building demand limiting. *Energy*, **2014**, 73, 787-800	7.9	19
130	Diagnosis of the low temperature difference syndrome in the chilled water system of a super high-rise building: A case study. *Applied Energy*, **2012**, 98, 597-606	10.7	19
129	Neighborhood-level coordination and negotiation techniques for managing demand-side flexibility in residential microgrids. *Renewable and Sustainable Energy Reviews*, **2021**, 135, 110248	16.2	19
128	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. *Applied Energy*, **2018**, 231, 615-627	10.7	19
127	A flexible-segment-model-based dynamics calculation method for free hanging marine risers in re-entry. *China Ocean Engineering*, **2012**, 26, 139-152	1.1	18
126	Model-based Optimal Control of Outdoor Air Flow Rate of an Air-Conditioning System with Primary Air-Handling Unit. *Indoor and Built Environment*, **2011**, 20, 626-637	1.8	17
125	Automatic sensor evaluation in BMS commissioning of building refrigeration systems. *Automation in Construction*, **2002**, 11, 59-73	9.6	17
124	Experimental study on the dynamics, quality and impacts of using variable-speed pumps in buildings for frequency regulation of smart power grids. *Energy*, **2020**, 199, 117406	7.9	16
123	Performance of distributed energy systems in buildings in cooling dominated regions and the impacts of energy policies. *Applied Thermal Engineering*, **2017**, 127, 281-291	5.8	16
122	Robust Model Predictive Control of VAV Air-Handling Units Concerning Uncertainties and Constraints. *HVAC and R Research*, **2010**, 16, 15-33		16
121	Online fault detection and robust control of condenser cooling water systems in building central chiller plants. *Energy and Buildings*, **2011**, 43, 153-165	7	16
120	Application of solar collectors to control the visible plume from wet cooling towers of a commercial building in Hong Kong: A case study. *Applied Thermal Engineering*, **2007**, 27, 1394-1404	5.8	16
119	Flow meter fault isolation in building central chilling systems using wavelet analysis. *Energy Conversion and Management*, **2006**, 47, 1700-1710	10.6	16
118	A simple procedure for calculating thermal response factors and conduction transfer functions of multilayer walls. *Applied Thermal Engineering*, **2002**, 22, 333-338	5.8	16

117	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. *Applied Energy*, **2016**, 171, 541-554	10.7	16
116	Quantitative evaluation of the impact of building load characteristics on energy performance of district cooling systems. *Applied Energy*, **2017**, 205, 635-643	10.7	15
115	Impacts of technology-guided occupant behavior on air-conditioning system control and building energy use. *Building Simulation*, **2021**, 14, 209-217	3.9	15
114	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. *Applied Energy*, **2020**, 274, 115322	10.7	14
113	Enhancing the Reliability of Chiller Control Using Fused Measurement of Building Cooling Load. *HVAC and R Research*, **2008**, 14, 941-958		14
112	Economic considerations and cost comparisons between the heat pumps and solar collectors for the application of plume control from wet cooling towers of commercial buildings. *Renewable and Sustainable Energy Reviews*, **2008**, 12, 2194-2210	16.2	14
111	Evaluation of plume potential and plume abatement of evaporative cooling towers in a subtropical region. *Applied Thermal Engineering*, **2008**, 28, 1471-1484	5.8	14
110	A robust sequencing control strategy for air-handling units. *Building Services Engineering Research and Technology*, **2004**, 25, 141-158	2.3	14
109	Making buildings smarter, grid-friendly, and responsive to smart grids. *Science and Technology for the Built Environment*, **2016**, 22, 629-632	1.8	14
108	Optimal and near-optimal indoor temperature and humidity controls for direct load control and proactive building demand response towards smart grids. *Automation in Construction*, **2018**, 96, 250-261	9.6	14
107	The practical performance forecast and analysis of thermoelectric module from macro to micro. *Energy Conversion and Management*, **2015**, 100, 23-29	10.6	13
106	A novel operation approach for the energy efficiency improvement of the HVAC system in office spaces through real-time big data analytics. *Renewable and Sustainable Energy Reviews*, **2020**, 127, 109885	16.2	13
105	An optimal control strategy with enhanced robustness for air-conditioning systems considering model and measurement uncertainties. *Energy and Buildings*, **2013**, 67, 540-550	7	13
104	Sequential Monte Carlo simulation for robust optimal design of cooling water system with quantified uncertainty and reliability. *Energy*, **2017**, 118, 489-501	7.9	13
103	Model-based optimal start control strategy for multi-chiller plants in commercial buildings. *Building Services Engineering Research and Technology*, **2010**, 31, 113-129	2.3	13
102	Test and evaluation of energy saving potentials in a complex building central chilling system using genetic algorithm. *Building Services Engineering Research and Technology*, **2011**, 32, 109-126	2.3	13
101	An improvement to frequency-domain regression method for calculating conduction transfer functions of building walls. *Applied Thermal Engineering*, **2008**, 28, 661-667	5.8	13
100	Effects of alternative control strategies of water-evaporative cooling systems on energy efficiency and plume control: A case study. *Building and Environment*, **2008**, 43, 1973-1989	6.5	13

99	Application of CFD in evaluation and energy-efficient design of air curtains for horizontal refrigerated display cases. *International Journal of Thermal Sciences*, **2004**, 43, 993-1002	4.1	13
98	A risk-based robust optimal chiller sequencing control strategy for energy-efficient operation considering measurement uncertainties. *Applied Energy*, **2020**, 280, 115983	10.7	13
97	Cooling Supply-based HVAC System Control for Fast Demand Response of Buildings to Urgent Requests of Smart Grids. *Energy Procedia*, **2016**, 103, 34-39	2.3	13
96	Optimal design of data center cooling systems concerning multi-chiller system configuration and component selection for energy-efficient operation and maximized free-cooling. *Renewable Energy*, **2019**, 143, 1717-1731	8.1	12
95	Performance Assessment of District Cooling System Coupled with Different Energy Technologies in Subtropical Area. *Energy Procedia*, **2015**, 75, 1235-1241	2.3	12
94	Robust optimal design of building cooling systems concerning uncertainties using mini-max regret theory. *Science and Technology for the Built Environment*, **2015**, 21, 789-799	1.8	12
93	Probabilistic optimal design of cleanroom air-conditioning systems facilitating optimal ventilation control under uncertainties. *Applied Energy*, **2019**, 253, 113576	10.7	12
92	A novel type of coupling cycle for adsorption heat pumps. *Applied Thermal Engineering*, **2002**, 22, 1083-1088	3.8	12
91	Variable-air-volume air-conditioning systems: Optimal reset of static pressure setpoint. *Building Services Engineering Research and Technology*, **1998**, 19, 219-231	2.3	12
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