Yongjun Sun

List of Publications by Year
in descending order

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79	3,277	109264	155592
papers	citations	35 h-index	55 g-index

82	82	82	2239
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Peak load shifting control using different cold thermal energy storage facilities in commercial buildings: A review. Energy Conversion and Management, 2013, 71, 101-114.	4.4	259
2	Deep learning-based feature engineering methods for improved building energy prediction. Applied Energy, 2019, 240, 35-45.	5.1	180
3	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.	5.1	157
4	An interactive building power demand management strategy for facilitating smart grid optimization. Applied Energy, 2014, 116, 297-310.	5.1	150
5	A multi-criterion renewable energy system design optimization for net zero energy buildings under uncertainties. Energy, 2016, 94, 654-665.	4.5	136
6	Statistical investigations of transfer learning-based methodology for short-term building energy predictions. Applied Energy, 2020, 262, 114499.	5.1	130
7	Energy performance and optimal control of air-conditioned buildings with envelopes enhanced by phase change materials. Energy Conversion and Management, 2011, 52, 3197-3205.	4.4	83
8	A multi-criteria system design optimization for net zero energy buildings under uncertainties. Energy and Buildings, 2015, 97, 196-204.	3.1	80
9	A robust demand response control of commercial buildings for smart grid under load prediction uncertainty. Energy, 2015, 93, 275-283.	4.5	77
10	Sensitivity analysis of macro-parameters in the system design of net zero energy building. Energy and Buildings, 2015, 86, 464-477.	3.1	75
11	Uncertainty-based life-cycle analysis of near-zero energy buildings for performance improvements. Applied Energy, 2018, 213, 486-498.	5.1	73
12	A study on thermoelectric technology application in net zero energy buildings. Energy, 2016, 113, 9-24.	4.5	59
13	Solar-photovoltaic-power-sharing-based design optimization of distributed energy storage systems for performance improvements. Energy, 2021, 222, 119931.	4.5	56
14	Chiller sequencing control with enhanced robustness for energy efficient operation. Energy and Buildings, 2009, 41, 1246-1255.	3.1	55
15	Response-surface-model-based system sizing for Nearly/Net zero energy buildings under uncertainty. Applied Energy, 2018, 228, 1020-1031.	5.1	55
16	A study on pipe-embedded wall integrated with ground source-coupled heat exchanger for enhanced building energy efficiency in diverse climate regions. Energy and Buildings, 2016, 121, 139-151.	3.1	53
17	Building-group-level performance evaluations of net zero energy buildings with non-collaborative controls. Applied Energy, 2018, 212, 565-576.	5.1	48
18	An online adaptive optimal control strategy for complex building chilled water systems involving intermediate heat exchangers. Applied Thermal Engineering, 2013, 50, 614-628.	3.0	47

#	Article	IF	Citations
19	A GA-based system sizing method for net-zero energy buildings considering multi-criteria performance requirements under parameter uncertainties. Energy and Buildings, 2016, 129, 524-534.	3.1	46
20	Geographic Information System-assisted optimal design of renewable powered electric vehicle charging stations in high-density cities. Applied Energy, 2019, 255, 113855.	5.1	46
21	Stochastic chiller sequencing control. Energy and Buildings, 2014, 84, 203-213.	3.1	45
22	A top-down control method of nZEBs for performance optimization at nZEB-cluster-level. Energy, 2018, 159, 891-904.	4.5	45
23	Discovering gradual patterns in building operations for improving building energy efficiency. Applied Energy, 2018, 224, 116-123.	5.1	43
24	A clustering based grouping method of nearly zero energy buildings for performance improvements. Applied Energy, 2019, 235, 43-55.	5.1	43
25	A GA-based coordinated demand response control for building group level peak demand limiting with benefits to grid power balance. Energy and Buildings, 2016, 110, 31-40.	3.1	42
26	Development of a simplified resistance and capacitance (RC)-network model for pipe-embedded concrete radiant floors. Energy and Buildings, 2017, 150, 353-375.	3.1	42
27	A demand limiting strategy for maximizing monthly cost savings of commercial buildings. Energy and Buildings, 2010, 42, 2219-2230.	3.1	40
28	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.	4.4	40
29	Event-driven optimization of complex HVAC systems. Energy and Buildings, 2016, 133, 79-87.	3.1	40
30	A fault-tolerant and energy efficient control strategy for primaryâ€“secondary chilled water systems in buildings. Energy and Buildings, 2011, 43, 3646-3656.	3.1	39
31	A study on semi-supervised learning in enhancing performance of AHU unseen fault detection with limited labeled data. Sustainable Cities and Society, 2021, 70, 102874.	5.1	39
32	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.	3.0	38
33	Investigations of climate change impacts on net-zero energy building lifecycle performance in typical Chinese climate regions. Energy, 2019, 185, 176-189.	4.5	37
34	Global sensitivity analysis for key parameters identification of net-zero energy buildings for grid interaction optimization. Applied Energy, 2020, 279, 115820.	5.1	37
35	A collaborative control optimization of grid-connected net zero energy buildings for performance improvements at building group level. Energy, 2018, 164, 536-549.	4.5	36
36	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.	3.1	35

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37	Robustness analysis of chiller sequencing control. Energy Conversion and Management, 2015, 103, 180-190.	4.4	35
38	Performance comparisons of two system sizing approaches for net zero energy building clusters under uncertainties. Energy and Buildings, 2016, 127, 10-21.	3.1	35
39	Uncertainty analysis for chiller sequencing control. Energy and Buildings, 2014, 85, 187-198.	3.1	34
40	Performance evaluation of conventional demand response at building-group-level under different electricity pricings. Energy and Buildings, 2016, 128, 143-154.	3.1	34
41	A data fusion scheme for building automation systems of building central chilling plants. Automation in Construction, 2009, 18, 302-309.	4.8	32
42	A collaborative demand control of nearly zero energy buildings in response to dynamic pricing for performance improvements at cluster level. Energy, 2019, 174, 911-921.	4.5	31
43	Multiplexed optimization for complex air conditioning systems. Building and Environment, 2013, 65, 99-108.	3.0	30
44	Preparation and characterizations of a novel temperature-tuned phase change material based on sodium acetate trihydrate for improved performance of heat pump systems. Renewable Energy, 2020, 157, 670-677.	4.3	30
45	A novel 3D-geographic information system and deep learning integrated approach for high-accuracy building rooftop solar energy potential characterization of high-density cities. Applied Energy, 2022, 306, 117985.	5.1	30
46	A robust design of nearly zero energy building systems considering performance degradation and maintenance. Energy, 2018, 163, 905-919.	4.5	29
47	Data-centric or algorithm-centric: Exploiting the performance of transfer learning for improving building energy predictions in data-scarce context. Energy, 2022, 240, 122775.	4.5	29
48	Online sensor fault diagnosis for robust chiller sequencing control. International Journal of Thermal Sciences, 2010, 49, 589-602.	2.6	25
49	Heuristic optimization for grid-interactive net-zero energy building design through the glowworm swarm algorithm. Energy and Buildings, 2020, 208, 109644.	3.1	25
50	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.	5.1	24
51	Life-cycle cost benefit analysis and optimal design of small scale active storage system for building demand limiting. Energy, 2014, 73, 787-800.	4.5	23
52	Event-driven optimal control of central air-conditioning systems: Event-space establishment. Science and Technology for the Built Environment, 2018, 24, 839-849.	0.8	23
53	Super absorbent polymer as support for shape-stabilized composite phase change material containing Na2HPO4Â·12H2Oâ€“K2HPO4Â·3H2O eutectic hydrated salt. Solar Energy Materials and Solar Cells, 2021, 231, 111334.	3.0	22
54	A genetic algorithm based dynamic pricing for improving bi-directional interactions with reduced power imbalance. Energy and Buildings, 2019, 199, 275-286.	3.1	20

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55	Differential evolution - based system design optimization for net zero energy buildings under climate change. Sustainable Cities and Society, 2020, 55, 102037.	5.1	20
56	A robust control of nZEBs for performance optimization at cluster level under demand prediction uncertainty. Renewable Energy, 2019, 134, 215-227.	4.3	18
57	Optimal deployment of distributed rooftop photovoltaic systems and batteries for achieving net-zero energy of electric bus transportation in high-density cities. Applied Energy, 2022, 319, 119274.	5.1	18
58	Enhancing the Reliability of Chiller Control Using Fused Measurement of Building Cooling Load. HVAC and R Research, 2008, 14, 941-958.	0.9	17
59	Model-based optimal start control strategy for multi-chiller plants in commercial buildings. Building Services Engineering Research and Technology, 2010, 31, 113-129.	0.9	17
60	Fusion of redundant measurements for enhancing the reliability of total cooling load based chiller sequencing control. Automation in Construction, 2011, 20, 789-798.	4.8	17
61	An optimal control strategy with enhanced robustness for air-conditioning systems considering model and measurement uncertainties. Energy and Buildings, 2013, 67, 540-550.	3.1	17
62	Self-Assembly Synthesis of Silver Nanowires/Graphene Nanocomposite and Its Effects on the Performance of Electrically Conductive Adhesive. Materials, 2018, 11, 2028.	1.3	13
63	Energy performance enhancement of Hong Kong International Airport through chilled water system integration and control optimization. Applied Thermal Engineering, 2013, 60, 303-315.	3.0	12
64	Development of a simplified heat transfer model of hollow blocks by using finite element method in frequency domain. Energy and Buildings, 2016, 111, 76-86.	3.1	10
65	A new multiplexed optimization with enhanced performance for complex air conditioning systems. Energy and Buildings, 2017, 156, 85-95.	3.1	9
66	Initial ratio optimization for the ejector cooling system with thermal pumping effect (ECSTPE). Energy Conversion and Management, 2016, 113, 281-289.	4.4	7
67	Preparation and thermal properties of a novel pseudo ionic liquid phase change material for solar water heating system. Solar Energy Materials and Solar Cells, 2022, 236, 111507.	3.0	7
68	Optimal control of solar-powered electric bus networks with improved renewable energy on-site consumption and reduced grid dependence. Applied Energy, 2022, 323, 119643.	5.1	7
69	Recent Developments in HVAC System Control and Building Demand Management. Current Sustainable/Renewable Energy Reports, 2017, 4, 15-21.	1.2	6
70	Review of uncertainty-based design methods of central air-conditioning systems and future research trends. Science and Technology for the Built Environment, 2019, 25, 819-835.	0.8	6
71	A GA-based NZEB-cluster planning and design optimization method for mitigating grid overvoltage risk. Energy, 2022, 243, 123051.	4.5	6
72	Investigation of maximum cooling loss in a piping network using Bayesian Markov Chain Monte Carlo method. Journal of Building Performance Simulation, 2019, 12, 117-132.	1.0	5

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73	Inverse optimization investigation for thermoelectric material from device level. Energy Conversion and Management, 2021, 228, 113669.	4.4	5
74	Numerical and experimental study on a double-layered coating design using supplemental property particles for achieving user-desired thermal and aesthetic performance. Energy, 2020, 211, 118683.	4.5	4
75	Life-cycle analysis of nearly zero energy buildings under uncertainty and degradation impacts for performance improvements. Energy Procedia, 2019, 158, 2762-2767.	1.8	3
76	A novel coordinated control for NZEB clusters to minimize their connected grid overvoltage risks. Building Simulation, 2022, 15, 1831-1848.	3.0	2
77	Building instantaneous cooling load fused measurement: multiple-sensor-based fusion versus chiller-model-based fusion. Building Services Engineering Research and Technology, 2013, 34, 177-194.	0.9	1
78	Climate change impact on energy balance of net-zero energy buildings in typical climate regions of China. E3S Web of Conferences, 2019, 111, 04004.	0.2	0
79	Genetic Algorithm and Mont Carlo Method for Global Sensitivity Analysis of Key Parameters Identification of Net Zero Energy Buildings Towards Power Grid Interaction Optimization. Sustainable Development Goals Series, 2021, , 337-358.	0.2	0