## EnergyPlus: creating a new-generation building energy

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Citation Report

#	Article	IF	CITATIONS
2	Multiple criteria decision support webâ€based system for building refurbishment. Journal of Civil Engineering and Management, 2004, 10, 77-85.	3.5	35
3	A convergent optimization method using pattern search algorithms with adaptive precision simulation. Building Services Engineering Research and Technology, 2004, 25, 327-338.	1.8	32
4	A survey of energy efficient strategies for effective air conditioning. Energy Conversion and Management, 2004, 45, 1643-1654.	9.2	73
5	A comparison of deterministic and probabilistic optimization algorithms for nonsmooth simulation-based optimization. Building and Environment, 2004, 39, 989-999.	6.9	230
6	Modelling in Practice II. , 0, , 265-281.		0
7	Controllable Background Ventilation in Dwellings - The Equivalent Opening Area Needed to Achieve Appropriate Indoor Air Quality. International Journal of Ventilation, 2004, 3, 147-154.	0.4	2
8	A collaborative platform for sustainable building design based on model integration over the international Journal of Environmental Technology and Management, 2005, 5, 135.	0.2	3
9	The transient house heating condition—the daily changes of the building envelope response factor (BER). Renewable Energy, 2005, 30, 537-549.	8.9	3
10	Building design optimization using a convergent pattern search algorithm with adaptive precision simulations. Energy and Buildings, 2005, 37, 603-612.	6.7	44
11	BuildOpt—a new building energy simulation program that is built on smooth models. Building and Environment, 2005, 40, 1085-1092.	6.9	20
12	A methodology for design of environmentally optimal buildings by variable grouping. Building and Environment, 2005, 40, 1126-1139.	6.9	60
13	Energy savings of office buildings by the use of semi-transparent solar cells for windows. Renewable Energy, 2005, 30, 281-304.	8.9	231
14	A Hierarchical Design Optimization Approach for Meeting Building Performance Targets. Architectural Engineering and Design Management, 2005, 1, 57-76.	1.7	3
15	Application of overhangs and side fins to high-rise residential buildings in Hong Kong. Civil Engineering and Environmental Systems, 2006, 23, 271-285.	0.9	14
16	Building HVAC control systems - role of controls and optimization. , 2006, , .		31
17	Photovoltaic electricity production in a two-floor house in Serbia. International Journal of Nuclear Governance, Economy and Ecology, 2006, 1, 52.	0.2	1
18	Impact of Solar Model Selection on Building Energy Analysis for Kuwait. , 2006, , 629.		0
19	Verification for transient heat conduction calculation of multilayer building constructions. Energy and Buildings, 2006, 38, 340-348.	6.7	23

#	Article	IF	CITATIONS
20	Application of switchable glazing to high-rise residential buildings in Hong Kong. Energy and Buildings, 2006, 38, 463-471.	6.7	22
21	Numerical procedure for predicting annual energy consumption of the under-floor air distribution system. Energy and Buildings, 2006, 38, 641-647.	6.7	48
22	Series of experiments for empirical validation of solar gain modeling in building energy simulation codes—Experimental setup, test cell characterization, specifications and uncertainty analysis. Building and Environment, 2006, 41, 1784-1797.	6.9	50
23	CO2-emissions reduction potential and costs of a decentralized energy system for providing electricity, cooling and heating in an office-building in Tokyo. Energy, 2006, 31, 3041-3061.	8.8	42
24	Photovoltaic electricity production of a grid-connected urban house in Serbia. Energy Policy, 2006, 34, 2941-2948.	8.8	31
25	Implementation and Validation of Ground-Source Heat Pump System Models in an Integrated Building and System Simulation Environment. HVAC and R Research, 2006, 12, 693-710.	0.6	58
26	Computer Simulation in Solar Architecture Design. Architectural Engineering and Design Management, 2007, 3, 106-123.	1.7	7
27	Automatic Ventilation Control of Trickle Ventilators. International Journal of Ventilation, 2007, 5, 417-426.	0.4	2
28	Building Load and Energy Simulation Programs and the Design Process. International Journal of Ventilation, 2007, 6, 177-192.	0.4	13
29	Energy simulation in the variable refrigerant flow air-conditioning system under cooling conditions. Energy and Buildings, 2007, 39, 212-220.	6.7	115
30	Daylighting and energy implications due to shading effects from nearby buildings. Applied Energy, 2007, 84, 1199-1209.	10.1	95
31	Assessment of building cooling energy need through a quasi-steady state model: Simplified correlation for gain-loss mismatch. Energy and Buildings, 2007, 39, 569-579.	6.7	54
32	Performance of energy recovery ventilator with various weathers and temperature set-points. Energy and Buildings, 2007, 39, 1202-1210.	6.7	73
33	DeST — An integrated building simulation toolkit Part I: Fundamentals. Building Simulation, 2008, 1, 95-110.	5.6	229
34	Energy modeling of two office buildings with data center for green building design. Energy and Buildings, 2008, 40, 1145-1152.	6.7	94
35	Lighting and cooling energy consumption in an open-plan office using solar film coating. Energy, 2008, 33, 1288-1297.	8.8	68
36	Developing a new library of materials and structural elements for the simulative evaluation of buildings' energy performance. Building and Environment, 2008, 43, 710-719.	6.9	19
37	A new approach to compute heat transfer of ground-coupled envelope in building thermal simulation software. Energy and Buildings, 2008, 40, 476-485.	6.7	17

#	Article	IF	CITATIONS
38	The impact of indoor thermal conditions, system controls and building types on the building energy demand. Energy and Buildings, 2008, 40, 627-636.	6.7	43
39	Analysis of annual heating and cooling energy requirements for office buildings in different climates in Turkey. Energy and Buildings, 2008, 40, 763-773.	6.7	149
40	The response of natural displacement ventilation to time-varying heat sources. Energy and Buildings, 2008, 40, 2099-2110.	6.7	20
41	An analysis of building energy performances and benefits using solar façades. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2008, 222, 299-308.	1.4	6
42	Impact of Solar Model Selection on Building Energy Analysis for Kuwait. Journal of Solar Energy Engineering, Transactions of the ASME, 2008, 130, .	1.8	2
43	Energy performance regression models for office buildings with daylighting controls. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2008, 222, 557-568.	1.4	18
44	Daylight metrics and energy savings. Lighting Research and Technology, 2009, 41, 261-283.	2.7	238
45	A demonstration of the effectiveness of inter-program comparative testing for diagnosing and repairing solution and coding errors in building simulation programs. Journal of Building Performance Simulation, 2009, 2, 63-73.	2.0	7
46	Past, present and future mathematical models for buildings. Intelligent Buildings International, 2009, 1, 23-38.	2.3	21
47	Linear approximant-based metaheuristic proportional-integral-derivative controller for a neutral time delay central heating system. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2009, 223, 605-618.	1.0	7
48	Neue objektorientierte hygrothermische Modellbibliothek zur Ermittlung des hygrothermischen und hygienischen Komforts in RÄ <b>g</b> men. Bauphysik, 2009, 31, 271-278.	0.5	4
49	Trade-off between environmental and economic objectives in the optimization of multi-energy systems. Building Simulation, 2009, 2, 29-40.	5.6	26
50	A state machine approach in modelling the heating process of a building. Energy and Buildings, 2009, 41, 528-533.	6.7	1
51	The influence of the external walls thermal inertia on the energy performance of well insulated buildings. Energy and Buildings, 2009, 41, 1181-1187.	6.7	246
52	Integrated solar heating systems: From initial sizing procedure to dynamic simulation. Solar Energy, 2009, 83, 657-663.	6.1	25
53	The calibration of a model for simulating the thermal and electrical performance of a 2.8kWAC solid-oxide fuel cell micro-cogeneration device. Journal of Power Sources, 2009, 186, 67-79.	7.8	21
54	An assessment tool for the energy, economic and environmental evaluation of thermal insulation solutions. Energy and Buildings, 2009, 41, 1165-1171.	6.7	120
55	Modelica-based modelling and simulation to support research and development in building energy and control systems. Journal of Building Performance Simulation, 2009, 2, 143-161.	2.0	144

#	Article	IF	CITATIONS
56	Implementation of a building foundation heat transfer model in EnergyPlus. Journal of Building Performance Simulation, 2009, 2, 127-142.	2.0	10
57	Applying quality control in building energy modelling: comparative simulation of a high performance building. Journal of Building Performance Simulation, 2009, 2, 163-178.	2.0	16
58	A limited-data model of building energy consumption. , 2010, , .		10
59	Performance-based and performance-driven architectural design and optimization. Frontiers of Architecture and Civil Engineering in China, 2010, 4, 512-518.	0.4	37
60	Artificial neural networks for energy analysis of office buildings with daylighting. Applied Energy, 2010, 87, 551-557.	10.1	255
61	Experimental validation of the simulation module of the water-cooled variable refrigerant flow system under cooling operation. Applied Energy, 2010, 87, 1513-1521.	10.1	31
62	A model to design and optimize multi-energy systems in buildings at the design concept stage. Renewable Energy, 2010, 35, 644-655.	8.9	141
63	The importance of axial effects for borehole design of geothermal heat-pump systems. Renewable Energy, 2010, 35, 763-770.	8.9	86
64	Efficiency of energy recovery ventilator with various weathers and its energy saving performance in a residential apartment. Energy and Buildings, 2010, 42, 43-49.	6.7	78
65	Experimental investigation of dehumidification process in cooling coil by utilizing air-to-air heat exchanger in humid climate of Iran. Energy and Buildings, 2010, 42, 822-827.	6.7	6
66	Optimal design for a dual-airflow window for different climate regions in China. Energy and Buildings, 2010, 42, 2200-2205.	6.7	24
67	Energy simulation and analysis of the heat recovery variable refrigerant flow system in winter. Energy and Buildings, 2010, 42, 1093-1099.	6.7	38
68	A Round Robin Test for buildings energy performance in Italy. Energy and Buildings, 2010, 42, 1862-1877.	6.7	50
69	Part load operation coefficient of air-conditioning system of public building. Energy and Buildings, 2010, 42, 1902-1907.	6.7	9
70	Parâmetros e métodos adotados no regulamento de etiquetagem da eficiência energética de edifÃcios: parte 2: método de simulação. Ambiente ConstruÃdo, 2010, 10, 27-40.	0.4	7
71	Parâmetros e métodos adotados no regulamento de etiquetagem da eficiência energética de edifÃcios: parte 1: método prescritivo. Ambiente ConstruÃdo, 2010, 10, 7-26.	0.4	16
72	Thermal comfort in an office with intermittent air-conditioning operation. Building Services Engineering Research and Technology, 2010, 31, 91-100.	1.8	23
73	The influence of wall's insulation thickness to building energy consumption. , 2010, , .		0

#	Article	IF	CITATIONS
74	Challenges for energy and buildings research: objectives, methods and funding mechanisms. Building Research and Information, 2010, 38, 107-122.	3.9	79
75	Generation of optimization proposals for electrical energy analysis of industrial automation systems. , 2010, , .		5
76	Temperature control of a neutral time delay central heating system via a two term disturbance compensator. , 2010, , .		2
77	Model predictive control for the operation of building cooling systems. , 2010, , .		25
78	Black-box models for fault detection and performance monitoring of buildings. Journal of Building Performance Simulation, 2010, 3, 53-62.	2.0	38
79	Model-based electrical energy analysis of industrial automation systems. , 2010, , .		5
81	User-Centric Energy Cost Analysis of Industrial Automation Systems. , 2011, , .		0
82	Simulation of a domestic ground source heat pump system using a three-dimensional numerical borehole heat exchanger model. Journal of Building Performance Simulation, 2011, 4, 141-155.	2.0	40
83	Modeling knowledge for user-centric energy cost analysis of industrial automation systems. , 2011, , .		0
84	Co-simulation of building energy and control systems with the Building Controls Virtual Test Bed. Journal of Building Performance Simulation, 2011, 4, 185-203.	2.0	323
85	Predictive control of radiant floor heating and solar-source heat pump operation in a solar house. HVAC and R Research, 2011, 17, 235-256.	0.6	57
87	A roadmap towards intelligent net zero- and positive-energy buildings. Solar Energy, 2011, 85, 3067-3084.	6.1	304
88	Integration of three-dimensional CFD results into energy simulations utilizing an Advection–Diffusion Response Factor. Energy and Buildings, 2011, 43, 2752-2759.	6.7	20
89	Difficulties and limitations in performance simulation of a double skin façade with EnergyPlus. Energy and Buildings, 2011, 43, 3635-3645.	6.7	65
90	Combining a Detailed Building Energy Model with a Physically-Based Urban Canopy Model. Boundary-Layer Meteorology, 2011, 140, 471-489.	2.3	71
91	Design optimization of insulation usage and space conditioning load using energy simulation and genetic algorithm. Energy, 2011, 36, 1659-1667.	8.8	68
92	Integrated evaluation of radiative heating systems for residential buildings. Energy, 2011, 36, 4207-4215.	8.8	25
93	Categories of indoor environmental quality and building energy demand for heating and cooling. Building Simulation, 2011, 4, 97-105.	5.6	9

#	Article	IF	CITATIONS
94	Comparison of building load performance between first principle based and implementable shading control algorithms. Building Simulation, 2011, 4, 135-148.	5.6	7
95	A novel approach for building occupancy simulation. Building Simulation, 2011, 4, 149-167.	5.6	196
96	Development of an optimal daylighting controller. Building and Environment, 2011, 46, 1011-1022.	6.9	20
97	A screening methodology for implementing cost effective energy retrofit measures in Canadian office buildings. Energy and Buildings, 2011, 43, 614-620.	6.7	138
98	Energy, environmental and economic optimization of thermal insulation solutions by means of an integrated decision support system. Energy and Buildings, 2011, 43, 686-694.	6.7	33
99	A simulation appraisal of performance of different HVAC systems in an office building. Energy and Buildings, 2011, 43, 1207-1215.	6.7	26
100	Toward a positive-net-energy residential building in Serbian conditions. Applied Energy, 2011, 88, 2407-2419.	10.1	75
101	A review of available methods for seasonal storage of solar thermal energy in residential applications. Renewable and Sustainable Energy Reviews, 2011, 15, 3341-3359.	16.4	411
102	Energy Simulation Tools for Buildings: An Overview. , 2011, , .		2
103	Whole building energy simulation and energy saving potential analysis of a large public building. Journal of Building Performance Simulation, 2011, 4, 37-47.	2.0	16
104	A model-assisted adaptive controller fine-tuning methodology for efficient energy use in buildings. , 2011, , .		4
105	Analysis of local optima in predictive control for energy efficient buildings. , 2011, , .		25
106	Identification of multi-zone building thermal interaction model from data. , 2011, , .		23
107	Study on Building Energy Effciency of Reflective Coatings in Hot Summer and Warmer Winter Zone of China. Advanced Materials Research, 0, 347-353, 3139-3142.	0.3	0
108	Effect of External Wall Insulation on Building Energy Consumption. Applied Mechanics and Materials, 0, 71-78, 156-159.	0.2	4
109	In situ determination of the moisture buffer potential of room enclosures. Journal of Building Physics, 2011, 34, 223-246.	2.4	24
111	Effect of Minimum Airflow Setting of VAV Unit on Building Energy Consumption under Korean Climatic Condition. Advanced Materials Research, 0, 450-451, 1435-1439.	0.3	0
112	Errors Analysis of Calculation Methods for Conduction Transfer Functions of Building Constructions. Applied Mechanics and Materials, 0, 263-266, 261-268.	0.2	0

	CITATION	i Report	
# 113	ARTICLE Energy Benefit of the Underfloor Air Distribution System for Reducing Air-Conditioning and Heating Loads in Buildings. Indoor and Built Environment, 2012, 21, 62-70.	IF 2.8	Citations 26
114	Identifying models of HVAC systems using semiparametric regression. , 2012, , .		42
115	Energy consumption of residential HVAC systems: A simple physically-based model. , 2012, , .		22
116	Design of Rule Model for Building Energy Efficiency Base on User Occupancy and Spatial Features. Communications in Computer and Information Science, 2012, , 58-63.	0.5	1
117	Building automation for increased energy efficiency in buildings. , 2012, , .		8
118	Electrical design of an Efficiency House Plus. , 2012, , .		1
119	Uncertainty in the energy dynamics of commercial office buildings. , 2012, , .		3
120	Development and evaluation of a building energy model integrated in the TEB scheme. Geoscientific Model Development, 2012, 5, 433-448.	3.6	95
121	Quantitative energy performance assessment methods for existing buildings. Energy and Buildings, 2012, 55, 873-888.	6.7	240
122	Influence of additional storey construction to space heating of a residential building. Energy and Buildings, 2012, 54, 511-518.	6.7	8
123	Decreasing energy consumption in thermally non-insulated old house via refurbishment. Energy and Buildings, 2012, 54, 503-510.	6.7	23
124	A simulation–optimization approach for energy efficiency of chilled water system. Energy and Buildings, 2012, 54, 290-296.	6.7	49
125	Energy-agile laptops: Demand response of mobile plug loads using sensor/actuator networks. , 2012, , .		4
126	Adaptive-fine tuning of building energy management systems using co-simulation. , 2012, , .		6
127	The feasibility of passive downdraught evaporative cooling for high-rise office buildings in Cairo. Architectural Science Review, 2012, 55, 307-319.	2.2	1
128	Active actuator fault detection and diagnostics in HVAC systems. , 2012, , .		20
129	Thermal and airflow simulation of a naturally ventilated shopping mall. Energy and Buildings, 2012, 50, 177-188.	6.7	37
130	A simulation appraisal of a switch of district to electric heating due to increased heat efficiency in an office building. Energy and Buildings, 2012, 50, 324-330.	6.7	13

#	Article	IF	Citations
131	Energy benchmarking in support of low carbon hotels: Developments, challenges, and approaches in China. International Journal of Hospitality Management, 2012, 31, 1130-1142.	8.8	47
132	Energy Saving Through the Sun: Analysis of Visual Comfort and Energy Consumption in Office Space. Energy Procedia, 2012, 30, 693-703.	1.8	23
133	Practical application of uncertainty analysis and sensitivity analysis on an experimental house. Energy and Buildings, 2012, 55, 459-470.	6.7	101
134	Energy, cost, and CO2 emission comparison between radiant wall panel systems and radiator systems. Energy and Buildings, 2012, 54, 496-502.	6.7	44
135	Exploration and Comparison of Approaches for Integrating Heterogeneous Information Sources to Support Performance Analysis of HVAC Systems. , 2012, , .		2
136	Optimizing performances of photovoltaics in Reunion Island—tilt angle. Progress in Photovoltaics: Research and Applications, 2012, 20, 923-935.	8.1	23
137	An approach for model-based energy cost analysis of industrial automation systems. Energy Efficiency, 2012, 5, 303-319.	2.8	2
138	Quantitative description and simulation of human behavior in residential buildings. Building Simulation, 2012, 5, 85-94.	5.6	92
139	Management of thermal performance risks in buildings subject to climate change. Building and Environment, 2012, 55, 167-177.	6.9	39
140	A resistance-capacitance network model for the analysis of the interactions between the energy performance of buildings and the urban climate. Building and Environment, 2012, 54, 116-125.	6.9	135
141	A framework for simulation-based real-time whole building performance assessment. Building and Environment, 2012, 54, 100-108.	6.9	105
142	Proposal of comfort classification indexes suitable for both single environments and whole buildings. Building and Environment, 2012, 57, 58-67.	6.9	73
143	Demand reduction in building energy systems based on economic model predictive control. Chemical Engineering Science, 2012, 67, 92-100.	3.8	297
144	Calibration and validation of a model for simulating thermal and electric performance of an internal combustion engine-based micro-cogeneration device. Applied Thermal Engineering, 2012, 45-46, 79-98.	6.0	63
145	Energy audit of an educational building in a hot summer climate. Energy and Buildings, 2012, 47, 122-130.	6.7	96
146	Dynamic thermal circuit modelling with distribution of internal solar radiation on varying façade orientations. Energy and Buildings, 2012, 47, 139-150.	6.7	36
147	Recognition of the importance of using artificial neural networks and genetic algorithms to optimize chiller operation. Energy and Buildings, 2012, 47, 651-658.	6.7	48
148	A review on the prediction of building energy consumption. Renewable and Sustainable Energy Reviews, 2012, 16, 3586-3592.	16.4	1,451

# 149	ARTICLE Reducing Transient and Steady State Electricity Consumption in HVAC Using Learning-Based Model-Predictive Control. Proceedings of the IEEE, 2012, 100, 240-253.	IF 21.3	Citations 208
150	Maximizing performances of variable tilt flat-plate solar collectors for Belgrade (Serbia). Journal of Renewable and Sustainable Energy, 2013, 5, 041820.	2.0	9
151	Cooling load reduction effect and its mechanism in between-glass cavity and venetian blind operation during the summer season. Building Simulation, 2013, 6, 351-364.	5.6	13
152	A detailed loads comparison of three building energy modeling programs: EnergyPlus, DeST and DOE-2.1E. Building Simulation, 2013, 6, 323-335.	5.6	68
153	Simulation of New Solar Heating System for Heating Biogas Digesters above Ground in Cold Regions. Applied Mechanics and Materials, 2013, 291-294, 89-95.	0.2	2
154	Analysis of energy saving optimization of campus buildings based on energy simulation. Frontiers in Energy, 2013, 7, 388-398.	2.3	3
155	Performance simulation of a joint solid desiccant heat pump and variable refrigerant flow air conditioning system in EnergyPlus. Energy and Buildings, 2013, 65, 220-230.	6.7	37
156	Envelope-related energy demand: A design indicator of energy performance for residential buildings in early design stages. Energy and Buildings, 2013, 61, 215-223.	6.7	59
157	Supply air temperature impact in underfloor air distribution systems under Korean climatic conditions: Energy, humidity and comfort. Energy and Buildings, 2013, 58, 363-371.	6.7	9
158	Scenarios to Reduce Electricity Consumption and CO2 Emission at Terminal 3 Soekarno-Hatta International Airport. Procedia Environmental Sciences, 2013, 17, 576-585.	1.4	12
159	Predictive control methods to improve energy efficiency and reduce demand in buildings. Computers and Chemical Engineering, 2013, 51, 77-85.	3.8	66
160	Energy simulation of sustainable air-cooled chiller system for commercial buildings under climate change. Energy and Buildings, 2013, 64, 162-171.	6.7	19
161	ROBESim: A retrofit-oriented building energy simulator based on EnergyPlus. Energy and Buildings, 2013, 66, 88-103.	6.7	33
162	Energy simulation modeling and savings analysis of load sharing between house and office. Renewable Energy, 2013, 54, 70-77.	8.9	9
163	A simplified method to predict hourly building cooling load for urban energy planning. Energy and Buildings, 2013, 58, 281-291.	6.7	39
164	Energy analysis of semi-transparent BIPV in Singapore buildings. Energy and Buildings, 2013, 66, 274-281.	6.7	125
165	A model predictive control optimization environment for real-time commercial building application. Journal of Building Performance Simulation, 2013, 6, 159-174.	2.0	136
166	Comparison of MPC strategies for building control. , 2013, , .		10

#	Article	IF	CITATIONS
167	Computer-aided design of electrical energy systems. , 2013, , .		6
168	DRSim: A cyber physical simulator for Demand Response systems. , 2013, , .		11
169	Eden: Simplified Management of Atypical High-Performance Computing Jobs. Computing in Science and Engineering, 2013, 15, 46-54.	1.2	4
170	Energy performance of a micro-cogeneration device during transient and steady-state operation: Experiments and simulations. Applied Thermal Engineering, 2013, 52, 478-491.	6.0	32
171	Dynamic performance assessment of a building-integrated cogeneration system for an Italian residential application. Energy and Buildings, 2013, 64, 343-358.	6.7	31
172	The potential for office buildings with mixed-mode ventilation and low energy cooling systems in arid climates. Energy and Buildings, 2013, 65, 368-381.	6.7	79
173	Sustain: An experimental test bed for building energy simulation. Energy and Buildings, 2013, 58, 44-57.	6.7	28
174	Modelling and applications of annual energy-using simulation module of separated heat pipe heat exchanger. Energy and Buildings, 2013, 57, 26-33.	6.7	47
175	A numerical implementation of the Dynamic Thermal Network method for long time series simulation of conduction in multi-dimensional non-homogeneous solids. International Journal of Heat and Mass Transfer, 2013, 61, 475-489.	4.8	15
176	Energy, environmental and economic dynamic performance assessment of different micro-cogeneration systems in a residential application. Applied Thermal Engineering, 2013, 59, 599-617.	6.0	73
177	Review of passive PCM latent heat thermal energy storage systems towards buildings' energy efficiency. Energy and Buildings, 2013, 59, 82-103.	6.7	785
178	Investigation on potential applicability of subsurface cooling in Singapore. Applied Energy, 2013, 103, 197-206.	10.1	9
179	Unsteady simulation of energy performance and thermal comfort in non-residential buildings. Building and Environment, 2013, 59, 482-491.	6.9	82
180	Thermal Performance of Tropical Atrium. Environmental and Climate Technologies, 2013, 12, 34-40.	0.2	5
181	An Expert System Based on OpenStudio Platform for Evaluation of Daylighting System Design. , 2013, , .		5
182	Sentinel. , 2013, , .		198
183	ZonePAC. , 2013, , .		40
184	A Framework for Integrated Analysis of Building Designs Using a Life-Cycle Assessment and Energy Simulation. , 2013, , .		7

#	Article	IF	Citations
185	Test and Analysis on the Thermal Environment of Island Subway Platform in Frosty Area. Applied Mechanics and Materials, 0, 353-356, 3025-3028.	0.2	0
186	Comparative Analysis of Two Methods for Conduction Transfer Functions of Building Constructions. Applied Mechanics and Materials, 0, 433-435, 2331-2334.	0.2	0
187	Explicit stochastic MPC approach to building temperature control. , 2013, , .		12
188	A "plug-n-play" computationally efficient approach for control design of large-scale nonlinear systems using co-simulation. , 2013, , .		14
189	Comparison of solar irradiation models in an urban context with Shanghai climate. , 2013, , .		0
190	The urban weather generator. Journal of Building Performance Simulation, 2013, 6, 269-281.	2.0	230
191	Optimization of photovoltaics panels area at Serbian zero-net energy building. Journal of Renewable and Sustainable Energy, 2013, 5, .	2.0	1
193	GENERATION OF DEFAULT CONFIGURATION FOR ENVIRONMENT SIMULATIONS. Journal of Environmental Engineering (Japan), 2013, 78, 367-374.	0.4	3
194	Computer tools applied to analysis of solar water heaters. Engenharia Agricola, 2013, 33, 1072-1078.	0.7	2
197	Avoiding the Possible Impact of Climate Change on the Built Environment: The Importance of the Building's Energy Robustness. Buildings, 2013, 3, 191-204.	3.1	13
198	Development of a Façade Assessment and Design Tool for Solar Energy (FASSADES). Buildings, 2014, 4, 43-59.	3.1	10
199	THE USE OF DIFFERENT LEVELS OF MULTI-ROOM MODELING APPROACH-APPLICATION TO BUILDING POLLUTION TRANSPORT AND EFFICIENCY OF OFF-HOUR VENTILATION. American Journal of Engineering and Applied Sciences, 2014, 7, 88-98.	0.6	3
200	A framework for predicting the non-visual effects of daylight – Part II: The simulation model. Lighting Research and Technology, 2014, 46, 388-406.	2.7	33
201	Recent advances in dynamic modeling of HVAC equipment. Part 2: Modelica-based modeling. HVAC and R Research, 2014, 20, 150-161.	0.6	25
202	Full Issue PDF Volume 34, Issue 2. Strategic Planning for Energy and the Environment, 2014, 34, 80-80.	0.8	0
203	Quick Design Analysis for Improving Building Energy Performance. Energy Procedia, 2014, 57, 3041-3050.	1.8	2
204	A "plug and play" computationally efficient approach for control design of large-scale nonlinear systems using cosimulation: a combination of two "ingredients". IEEE Control Systems, 2014, 34, 56-71.	0.8	47
205	Influence of Three Dynamic Predictive Clothing Insulation Models on Building Energy Use, HVAC Sizing and Thermal Comfort. Energies, 2014, 7, 1917-1934.	3.1	21

	Сітатіо	on Report	
# 206	ARTICLE New Construction Methodology - A Strategic Approach of Financial and Market Feasibility for	IF 0.3	CITATIONS
207	Geothermal Cogeneration Plant. Advanced Materials Research, 2014, 984-985, 774-783. The effect of architectural façade design on energy savings in the student dormitory. Thermal Science, 2014, 18, 979-988.	1.1	7
208	The Potential and Utilization of Unused Energy Sources for Large-Scale Horticulture Facility Applications under Korean Climatic Conditions. Energies, 2014, 7, 4781-4801.	3.1	14
209	How can We Tackle Energy Efficiency in IoT BasedSmart Buildings?. Sensors, 2014, 14, 9582-9614.	3.8	103
210	Building Energy Performance Estimation in Early Design Decisions: Quantification of Uncertainty and Assessment of Confidence. , 2014, , .		1
211	A Simulink®-Based Building Load-Ground Source Heat Pump Model Used to Assess Short-and Long-Term Heat Pump and Ground Loop Performance. Journal of Thermal Science and Engineering Applications, 2014, 6, .	1.5	2
212	Data driven investigation of faults in HVAC systems with model, cluster and compare (MCC). , 2014, , .		36
213	Evaluating storage systems for scientific data in the cloud. , 2014, , .		4
214	Ray tracing algorithm for accurate solar irradiance prediction in urban areas. Applied Optics, 2014, 53, 5465.	1.8	4
215	Simulating the Thermal-Energy Performance of Buildings at the Urban Scale: Evaluation of Inter-Building Effects in Different Urban Configurations. Journal of Urban Technology, 2014, 21, 3-20.	4.7	22
216	Optimizing commercial building participation in energy and ancillary service markets. Energy and Buildings, 2014, 81, 115-126.	6.7	80
217	Evolutionary Optimisation of Semi-Transparent Building Integrated Photovoltaic Facades. International Journal of Architectural Computing, 2014, 12, 81-100.	1.5	1
218	Effects of furniture and contents on peak cooling load. Energy and Buildings, 2014, 85, 445-457.	6.7	29
219	Model integrated of life-cycle costing and dynamic thermal simulation (MILD) to evaluate roof insulation materials for existing livestock buildings. Energy and Buildings, 2014, 81, 48-58.	6.7	22
220	Multi-objective optimization of cellular fenestration by an evolutionary algorithm. Journal of Building Performance Simulation, 2014, 7, 33-51.	2.0	40
221	Integrated electrical and gas network modelling for assessment of different power-and-heat options. , 2014, , .		9
222	Coupling occupancy information with HVAC energy simulation: A systematic review of simulation programs. , 2014, , .		6
223	Limitations of the CIBSE design summer year approach for delivering representative near-extreme summer weather conditions. Building Services Engineering Research and Technology, 2014, 35, 155-169.	1.8	24

#	Article	IF	CITATIONS
224	A Zero Energy Concept Building for the Mediterranean Climate. Energy Procedia, 2014, 62, 280-288.	1.8	26
225	Identifying best practice, installation, laboratory testing and field testing. DFI Journal, 2014, 8, 74-83.	0.2	7
226	Carbon Emissions of Chiller Systems in Hong Kong Hotels under Climate Change. Strategic Planning for Energy and the Environment, 2014, 34, 39-64.	0.8	5
227	Design tools for thermoactive geotechnical systems. DFI Journal, 2014, 8, 121-129.	0.2	7
228	Quick Design Analysis for Improving Building Energy Performance. Energy Procedia, 2014, 57, 1868-1877.	1.8	1
229	Comparison of Traditional and Bayesian Calibration Techniques for Gray-Box Modeling. Journal of Architectural Engineering, 2014, 20, 04013011.	1.6	14
230	Optimization of Building Performance in Terms of Envelope Elements through Combined Energy Modelling and Generic Optimization. Applied Mechanics and Materials, 0, 592-594, 2447-2451.	0.2	2
231	Comparison of a primal and a dual decomposition for distributed MPC in smart districts. , 2014, , .		17
232	Transient modeling of high-inertial thermal bridges in buildings using the equivalent thermal wall method. Applied Thermal Engineering, 2014, 67, 370-377.	6.0	30
233	Evolutive Housing System: Refurbishment with new technologies and unsteady simulations of energy performance. Energy and Buildings, 2014, 74, 173-181.	6.7	31
234	Intelligent BEMS design using detailed thermal simulation models and surrogate-based stochastic optimization. Journal of Process Control, 2014, 24, 846-855.	3.3	19
235	Improving the capabilities of the Town Energy Balance model with up-to-date building energy simulation algorithms: an application to a set of representative buildings in Paris. Energy and Buildings, 2014, 76, 1-14.	6.7	45
236	Dynamic aggregated building electricity load modeling and simulation. Simulation Modelling Practice and Theory, 2014, 42, 19-31.	3.8	9
237	Expanding Inter-Building Effect modeling to examine primary energy for lighting. Energy and Buildings, 2014, 76, 513-523.	6.7	55
238	Engineering design applications of surrogate-assisted optimization techniques. Optimization and Engineering, 2014, 15, 243-265.	2.4	46
239	Annual hourly CFD simulation: New approach—An efficient scheduling algorithm for fast iteration convergence. Building Simulation, 2014, 7, 401-415.	5.6	6
240	Algorithms for optimization of building design: A review. Renewable and Sustainable Energy Reviews, 2014, 31, 101-112.	16.4	375
241	Hourly cooling load forecasting using time-indexed ARX models with two-stage weighted least squares regression. Energy Conversion and Management, 2014, 80, 46-53.	9.2	65

P

TATION

#	Article	IF	CITATIONS
242	Robust on-line fault detection diagnosis for HVAC components based on nonlinear state estimation techniques. Applied Energy, 2014, 124, 156-166.	10.1	101
243	EKF based self-adaptive thermal model for a passive house. Energy and Buildings, 2014, 68, 811-817.	6.7	137
244	Combined heat and power's potential to meet New York City's sustainability goals. Energy Policy, 2014, 65, 444-454.	8.8	17
245	Dynamic performance assessment of a residential building-integrated cogeneration system under different boundary conditions. Part I: Energy analysis. Energy Conversion and Management, 2014, 79, 731-748.	9.2	39
246	Simulation and evaluation of Building Information Modeling in a real pilot site. Applied Energy, 2014, 114, 475-484.	10.1	79
247	Pseudo dynamic transitional modeling of building heating energy demand using artificial neural network. Energy and Buildings, 2014, 70, 81-93.	6.7	82
248	Statistical analysis of the ranking capability of long-term thermal discomfort indices and their adoption in optimization processes to support building design. Building and Environment, 2014, 75, 114-131.	6.9	31
249	Managing energy Smart Homes according to energy prices: Analysis of a Building Energy Management System. Energy and Buildings, 2014, 71, 155-167.	6.7	230
250	A SystemC-based framework for the simulation of appliances networks in energy-aware smart spaces. , 2014, , .		4
251	A Review of Wireless-Sensor-Network-Enabled Building Energy Management Systems. ACM Transactions on Sensor Networks, 2014, 10, 1-43.	3.6	67
252	Functional mock-up unit for co-simulation import in EnergyPlus. Journal of Building Performance Simulation, 2014, 7, 192-202.	2.0	78
253	Façade photovoltaic systems on multifamily buildings: An urban scale evaluation analysis using geographical information systems. Renewable and Sustainable Energy Reviews, 2014, 39, 912-933.	16.4	25
254	Passive designs and strategies for low-cost housing using simulation-based optimization and different thermal comfort criteria. Journal of Building Performance Simulation, 2014, 7, 68-81.	2.0	57
255	Novel simulation concepts for buildings and community energy systems based on the Functional Mock-up Interface specification. , 2014, , .		3
256	EnergyPlus as a forensic tool: Thermal reconstruction of a crime scene using calibrated simulation. Simulation, 2014, 90, 1007-1018.	1.8	0
257	Experimental investigation on a novel temperature and humidity independent control air conditioning system – Part II: Heating condition. Applied Thermal Engineering, 2014, 73, 775-783.	6.0	22
258	The impacts of duct design on life cycle costs of central residential heating and air-conditioning systems. Energy and Buildings, 2014, 82, 563-579.	6.7	11
259	Energy saving potential of semi-transparent photovoltaic elements for building integration. Energy, 2014, 76, 572-583.	8.8	84

#	Article	IF	CITATIONS
260	A feasibility study on a building's window system based on dye-sensitized solar cells. Energy and Buildings, 2014, 81, 38-47.	6.7	44
261	A modular optimisation model for reducing energy consumption in large scale building facilities. Renewable and Sustainable Energy Reviews, 2014, 38, 990-1002.	16.4	40
262	Modeling heating and cooling loads by artificial intelligence for energy-efficient building design. Energy and Buildings, 2014, 82, 437-446.	6.7	311
263	Urban energy simulation: Simplification and reduction of building envelope models. Energy and Buildings, 2014, 84, 193-202.	6.7	59
264	Balancing envelope and heating system parameters for zero emissions retrofit using building sensor data. Applied Energy, 2014, 131, 56-66.	10.1	50
265	Simulation-Based Model for Integrated Daylighting System Design. Journal of Computing in Civil Engineering, 2014, 28, .	4.7	10
266	Experimental investigation on a novel temperature and humidity independent control air conditioning system – Part I: Cooling condition. Applied Thermal Engineering, 2014, 73, 784-793.	6.0	49
267	Intelligent Management Systems for Energy Efficiency in Buildings. ACM Computing Surveys, 2014, 47, 1-38.	23.0	697
268	A new method for reusing building information models of past projects to optimize the default configuration for performance simulations. Energy and Buildings, 2014, 73, 83-91.	6.7	30
269	Detailed heat balance analysis of the thermal load variations depending on the blind location and glazing type. Energy and Buildings, 2014, 75, 84-95.	6.7	17
270	Energy and visual comfort analysis of lighting and daylight control strategies. Building and Environment, 2014, 78, 155-170.	6.9	147
271	Validation of EnergyPlus thermal simulation of a double skin naturally and mechanically ventilated test cell. Energy and Buildings, 2014, 75, 511-522.	6.7	135
272	Determining the energy performance of manually controlled solar shades: A stochastic model based co-simulation analysis. Applied Energy, 2014, 127, 64-80.	10.1	75
273	A procedure for modeling buildings and their thermal zones using co-simulation and system identification. Energy and Buildings, 2014, 78, 231-237.	6.7	35
274	Optimization of thermal insulation to achieve energy savings in low energy house (refurbishment). Energy Conversion and Management, 2014, 84, 681-690.	9.2	42
275	Comparison study of a novel solid desiccant heat pump system with EnergyPlus. Building Simulation, 2014, 7, 467-476.	5.6	7
276	A review of methods to match building energy simulation models to measured data. Renewable and Sustainable Energy Reviews, 2014, 37, 123-141.	16.4	544
277	An investigation into the impact of movable solar shades on energy, indoor thermal and visual comfort improvements. Building and Environment, 2014, 71, 24-32.	6.9	101

#	Article	IF	CITATIONS
278	Evaluation of the Impact of Minimum Airflow on the Energy Consumption of Single Duct VAV Terminal Boxes. Journal of Asian Architecture and Building Engineering, 2014, 13, 239-246.	2.0	1
279	Continuous Monitoring, Modeling, and Evaluation of Actual Building Energy Systems. , 2014, , .		0
280	Model Predictive Control for Market-Based Demand Response Participation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 11153-11158.	0.4	15
281	The Role of Construction Detailing and Workmanship in Achieving Energy-efficient Buildings. , 2014, , .		5
282	Black-box modeling of buildings thermal behavior using system identification. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 10850-10855.	0.4	14
283	CBSF: A Framework for Accurate Simulation of Appliance Data for Future Smart Grid Applications. Energy Procedia, 2015, 75, 1686-1691.	1.8	1
284	Providing ancillary service with commercial buildings: the Swiss perspectiveâ <sup>^</sup> —â <sup>^</sup> —This work has received support from the Swiss National Science Foundation under the GEMS project (grant number) Tj ETQq0 0 0 rgBT / Programme (FP/2007-2013) / ERC Grant Agreement n. 307608 (BuildNet). IFAC-PapersOnLine, 2015, 48, 6-13.	Overlock	10 Tf 50 502
285	Development of a Methodology to Analyze Energy and Resources Consumption Along the Product Value Chain. Procedia CIRP, 2015, 33, 145-150.	1.9	4
286	Simulating the Impact of Phase Change Material Embedded Building Envelopes on the Inter-Building Effect in Non-tropical Cities. Procedia Engineering, 2015, 118, 760-765.	1.2	4
287	Disaggregate Analysis of the Inter-Building Effect in a Dense Urban Environment. Energy Procedia, 2015, 75, 1348-1353.	1.8	12
288	Thermal comfort control based on MEC algorithm for HVAC systems. , 2015, , .		1
289	Low carbon Buildings: Sensitivity of Thermal Properties of Opaque Envelope Construction and Glazing. Energy Procedia, 2015, 75, 1284-1289.	1.8	22
292	A Method to Evaluate Energy Performance of Buildings Cooled by Room Air Conditioners. Energy Procedia, 2015, 75, 1275-1283.	1.8	1
293	Retrofit of a Kindergarten Targeting Zero Energy Balance. Energy Procedia, 2015, 78, 991-996.	1.8	7
294	Exploring the Implications of Different Occupancy Modelling Approaches for Building Performance Simulation Results. Energy Procedia, 2015, 78, 567-572.	1.8	11
295	Modeling regular occupancy in commercial buildings using stochastic models. Energy and Buildings, 2015, 103, 216-223.	6.7	69
297	Learning Agent for a Heat-Pump Thermostat with a Set-Back Strategy Using Model-Free Reinforcement Learning. Energies, 2015, 8, 8300-8318.	3.1	48
298	Savings in Cooling Energy with a Thermal Management System for LED Lighting in Office Buildings. Energies, 2015, 8, 6658-6671.	3.1	19

#	Article	IF	Citations
299	Energy Efficiency Indicators for Assessing Construction Systems Storing Renewable Energy: Application to Phase Change Material-Bearing Façades. Energies, 2015, 8, 8630-8649.	3.1	6
300	The Impact of Local Microclimate Boundary Conditions on Building Energy Performance. Sustainability, 2015, 7, 9207-9230.	3.2	30
301	Building Information Modeling for Indoor Environmental Performance Analysis. American Journal of Environmental Sciences, 2015, 11, 55-61.	0.5	15
302	Assigning Robust Default Values in Building Performance Simulation Software for Improved Decision-Making in the Initial Stages of Building Design. Scientific World Journal, The, 2015, 2015, 1-11.	2.1	5
303	Influence of Urban Microclimate on Air-Conditioning Energy Needs and Indoor Thermal Comfort in Houses. Advances in Meteorology, 2015, 2015, 1-9.	1.6	13
304	Sometimes, Money Does Grow On Trees. , 2015, , .		10
305	Simulation and validation of a model for heating underground biogas digesters by solar energy. Ecological Engineering, 2015, 82, 336-344.	3.6	26
306	Inter unit heat flows in a residence during district heating in a multistory residential building. Building Simulation, 2015, 8, 529-542.	5.6	1
307	Comparisons of inverse modeling approaches for predicting building energy performance. Building and Environment, 2015, 86, 177-190.	6.9	137
308	Hygrothermal Performance and Degradation of Gypsum Houses in Different Brazilian Climates. , 2015, 3, 137-149.		2
309	Urban Data and Building Energy Modeling: A GIS-Based Urban Building Energy Modeling System Using the Urban-EPC Engine. Lecture Notes in Geoinformation and Cartography, 2015, , 447-469.	1.0	28
310	From robust chip to smart building: CAD algorithms and methodologies for uncertainty analysis of building performance. , 2015, , .		6
311	A Comprehensive Framework for the Development of Dynamic Smart Spaces. , 2015, , .		1
312	An Extensible Simulator for Dynamic Control of Residential Area: Case Study on Heating Control. , 2015, , .		7
313	Energy savings analysis of fuel-cell microgeneration systems with ground source heat pumps in load-sharing buildings. International Journal of Low-Carbon Technologies, 2015, 10, 405-411.	2.6	1
314	OpenBuild : An integrated simulation environment for building control. , 2015, , .		28
315	Local4Global Adaptive Optimization and control for System-of-Systems. , 2015, , .		8
316	Cluster Control of Heterogeneous Thermostatically Controlled Loads Using Tracer Devices. IEEE Transactions on Smart Grid, 2015, , 1-9.	9.0	25

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CIT	TAT	ION	RF	PO	

#	Article	IF	CITATIONS
317	A comperative study on novel machine learning algorithms for estimation of energy performance of residential buildings. , 2015, , .		6
318	The Research of Cooling Water Temperature and Flow Rate Control System Based on Heat Transfer and Neural Network. , 2015, , .		0
319	Learning based compact thermal modeling for energy-efficient smart building management. , 2015, , .		4
320	Analysis of the Indoor Thermal Load Variations Depending on the Shading Device Parameters and Window Orientation. International Journal of Air-Conditioning and Refrigeration, 2015, 23, 1550023.	0.7	1
321	A multi-grid reinforcement learning method for energy conservation and comfort of HVAC in buildings. , 2015, , .		34
322	Simulation and experimental demonstration of model predictive control in a building HVAC system. Science and Technology for the Built Environment, 2015, 21, 721-732.	1.7	32
323	A novel air-conditioning system for proactive power demand response to smart grid. Energy Conversion and Management, 2015, 102, 239-246.	9.2	56
324	EnergyPlus model-based predictive control within design–build–operate energy information modelling infrastructure. Journal of Building Performance Simulation, 2015, 8, 121-134.	2.0	42
325	A simplified analytical model to evaluate the impact of radiant heat on building cooling load. Applied Thermal Engineering, 2015, 77, 30-41.	6.0	27
326	Climate responsive strategies of traditional dwellings located in an ancient village in hot summer and cold winter region of China. Building and Environment, 2015, 86, 151-165.	6.9	83
327	Cost optimality assessment of a single family house: Building and technical systems solutions for the nZEB target. Energy and Buildings, 2015, 90, 173-187.	6.7	83
328	Mapping of the indoor comfort conditions considering the effect of solar radiation. Solar Energy, 2015, 113, 63-77.	6.1	35
329	Fast, Automated, Scalable Generation of Textured 3D Models of Indoor Environments. IEEE Journal on Selected Topics in Signal Processing, 2015, 9, 409-421.	10.8	58
330	The practical optimisation of complex architectural forms. Building Simulation, 2015, 8, 307-322.	5.6	10
331	A study and a directory of energy consumption data sets of buildings. Energy and Buildings, 2015, 94, 91-99.	6.7	44
332	The early design stage of a building envelope: Multi-objective search through heating, cooling and lighting energy performance analysis. Applied Energy, 2015, 154, 577-591.	10.1	237
333	Models, abstractions, and architectures. , 2015, , .		12
334	Unsteady-RANS simulation of conjugate heat transfer in a cavity with a vertical semitransparent wall. Computers and Fluids, 2015, 117, 183-195.	2.5	7

#	Article	IF	CITATIONS
335	Joint energy demand and thermal comfort optimization in photovoltaic-equipped interconnected microgrids. Energy Conversion and Management, 2015, 101, 352-363.	9.2	60
336	The effects of interior emissivity and room layout on forced air space-conditioning power usage. International Journal of Heat and Mass Transfer, 2015, 89, 216-228.	4.8	9
337	Constrained, mixed-integer and multi-objective optimisation of building designs by NSGA-II with fitness approximation. Applied Soft Computing Journal, 2015, 33, 114-126.	7.2	94
338	The joint influence of albedo and insulation on roof performance: A modeling study. Energy and Buildings, 2015, 102, 317-327.	6.7	19
339	Toward mitigating urban heat island effects: Investigating the thermal-energy impact of bio-inspired retro-reflective building envelopes in dense urban settings. Energy and Buildings, 2015, 102, 380-389.	6.7	85
340	Preliminary design method for naturally ventilated buildings using target air change rate and natural ventilation potential maps in the United States. Energy, 2015, 89, 655-666.	8.8	39
341	Multi-objective optimization of a nearly zero-energy building based on thermal and visual discomfort minimization using a non-dominated sorting genetic algorithm (NSGA-II). Energy and Buildings, 2015, 104, 378-394.	6.7	170
342	Model-based and model-free "plug-and-play―building energy efficient control. Applied Energy, 2015, 154, 829-841.	10.1	60
343	Impact of different thermal comfort models on zero energy residential buildings in hot climate. Energy and Buildings, 2015, 102, 117-128.	6.7	105
344	Energetic and Economic Assessment of Pipe Network Effects on Unused Energy Source System Performance in Large-Scale Horticulture Facilities. Energies, 2015, 8, 3328-3350.	3.1	5
345	Fener: A Radiance-based modelling approach to assess the thermal and daylighting performance of complex fenestration systems in office spaces. Energy and Buildings, 2015, 94, 10-20.	6.7	50
346	Estimation of urban temperature and humidity using a lumped parameter model coupled with an EnergyPlus model. Energy and Buildings, 2015, 96, 221-235.	6.7	27
347	Bi-objective optimization of building enclosure design for thermal and lighting performance. Building and Environment, 2015, 92, 591-602.	6.9	82
348	Multi-objective optimization of thermal modelled cubicles considering the total cost and life cycle environmental impact. Energy and Buildings, 2015, 88, 335-346.	6.7	56
349	Intelligent energy and thermal comfort management in grid-connected microgrids with heterogeneous occupancy schedule. Applied Energy, 2015, 149, 194-203.	10.1	132
350	Social BIMCloud: a distributed cloud-based BIM platform for object-based lifecycle information exchange. Visualization in Engineering, 2015, 3, .	8.8	29
351	Judicious choice of the building compactness to improve thermo-aeraulic comfort in hot climate. Journal of Building Engineering, 2015, 1, 42-52.	3.4	13
352	Development and application of an updated whole-building coupled thermal, airflow and contaminant transport simulation program (TRNSYS/CONTAM). Journal of Building Performance Simulation, 2015, 8, 326-337.	2.0	25

#	Article	IF	CITATIONS
353	Multi-Agent Architecture for Control of Heating and Cooling in a Residential Space. Computer Journal, 2015, 58, 1314-1329.	2.4	1
354	Computational Fluid Dynamics for urban physics: Importance, scales, possibilities, limitations and ten tips and tricks towards accurate and reliable simulations. Building and Environment, 2015, 91, 219-245.	6.9	661
355	United States energy and CO2 savings potential from deployment of near-infrared electrochromic window glazings. Building and Environment, 2015, 89, 107-117.	6.9	124
356	Determination of the Mass Diffusion Coefficient Based on the Relative Humidity Measured at the Back Face of the Sample During Unsteady Regimes. Drying Technology, 2015, 33, 1068-1075.	3.1	41
357	Effect of internal woven roller shade and glazing on the energy and daylighting performances of an office building in the cold climate of Shillong. Applied Energy, 2015, 159, 317-333.	10.1	56
358	Influence of experimental conditions on measured thermal properties used to model phase change materials. Building Simulation, 2015, 8, 637-650.	5.6	22
359	Multi-objective control strategy for energy management of grid-connected heterogeneous microgrids. , 2015, , .		2
360	A hybrid simulation approach to predict cooling energy demand for public housing in Hong Kong. Building Simulation, 2015, 8, 603-611.	5.6	6
361	Thermal performance of building envelope of ready-made garments (RMG) factories in Dhaka, Bangladesh. Energy and Buildings, 2015, 107, 144-154.	6.7	10
362	Thermal-energy analysis of natural "cool―stone aggregates as passive cooling and global warming mitigation technique. Urban Climate, 2015, 14, 301-314.	5.7	50
363	Rapid response surface creation method to optimize window geometry using dynamic daylighting simulation and energy simulation. Energy and Buildings, 2015, 107, 417-423.	6.7	26
364	Strategies for cost efficient refurbishment and solar energy integration in European Case Study buildings. Energy and Buildings, 2015, 102, 237-249.	6.7	49
365	Modeling the energy and cost impacts of excess static pressure in central forced-air heating and air-conditioning systems in single-family residences in the U.S Energy and Buildings, 2015, 107, 243-253.	6.7	19
366	Modeling and optimization of building mix and energy supply technology for urban districts. Applied Energy, 2015, 159, 161-177.	10.1	66
367	Efficient design of residential buildings geometry to optimize photovoltaic energy generation and energy demand in a warm Mediterranean climate. Energy Efficiency, 2015, 8, 65-84.	2.8	9
368	Thermal comfort assessment of an office building served by under-floor air distribution (UFAD) system – A case study. Building and Environment, 2015, 85, 153-159.	6.9	32
369	Seasonal thermal energy storage with heat pumps and low temperatures in building projects—A comparative review. Renewable and Sustainable Energy Reviews, 2015, 43, 1199-1213.	16.4	171
370	Simulation of occupancy in buildings. Energy and Buildings, 2015, 87, 348-359.	6.7	186

#	Article	IF	CITATIONS
371	Improving energy efficiency via smart building energy management systems: A comparison with policy measures. Energy and Buildings, 2015, 88, 203-213.	6.7	124
372	Economic MPC of Aggregating Commercial Buildings for Providing Flexible Power Reserve. IEEE Transactions on Power Systems, 2015, 30, 2685-2694.	6.5	69
373	A multi-objective design optimization strategy for vertical ground heat exchangers. Energy and Buildings, 2015, 87, 233-242.	6.7	51
374	Improving building energy efficiency by multiobjective neighborhood field optimization. Energy and Buildings, 2015, 87, 45-56.	6.7	67
375	An energy signal tool for decision support in building energy systems. Applied Energy, 2015, 138, 51-70.	10.1	17
376	Overview of challenges and achievements in the climate adaptation of cities and in the Climate Proof Cities program. Building and Environment, 2015, 83, 1-10.	6.9	55
377	Sensitivity analysis of complex models: Coping with dynamic and static inputs. Reliability Engineering and System Safety, 2015, 134, 268-275.	8.9	16
378	Carbon emission analysis of a residential building in China through life cycle assessment. Frontiers of Environmental Science and Engineering, 2016, 10, 150-158.	6.0	27
379	Energy Audit of Health Care Facilities: Dynamic Simulation of Energy Performances and Energy-Oriented Refurbishment of System and Equipment for Microclimatic Control. American Journal of Engineering and Applied Sciences, 2016, 9, 814-834.	0.6	5
380	Effects of Irradiance and Ambient Temperature on a Decision-Making Tool for Rooftop PV Array Sizing for Commercial Buildings. , 2016, , .		0
381	A Review of District Heating Systems: Modeling and Optimization. Frontiers in Built Environment, 2016, 2, .	2.3	55
382	A Performance Evaluation of the BIM-Based Object-Oriented Physical Modeling Technique for Building Thermal Simulations: A Comparative Case Study. Sustainability, 2016, 8, 648.	3.2	18
383	Impact of Manually Controlled Solar Shades on Indoor Visual Comfort. Sustainability, 2016, 8, 727.	3.2	13
384	Feasibility Study on Parametric Optimization of Daylighting in Building Shading Design. Sustainability, 2016, 8, 1220.	3.2	20
386	Predicting energy performance of a net-zero energy building: A statistical approach. Applied Energy, 2016, 178, 468-483.	10.1	61
387	Decision-making process for improving thermal and energy performance of residential buildings: A case study of constructive systems in Brazil. Energy and Buildings, 2016, 128, 270-286.	6.7	30
388	Senseâ€Thinkâ€Act Framework for Intelligent Building Energy Management. Computer-Aided Civil and Infrastructure Engineering, 2016, 31, 50-64.	9.8	18
389	OpenBuildNet framework for distributed co-simulation of smart energy systems. , 2016, , .		2

#	Article	IF	CITATIONS
390	Data Predictive Control for Peak Power Reduction. , 2016, , .		10
391	Mining Markov Network Surrogates for Value-Added Optimisation. , 2016, , .		2
392	Comparison of energy consumption: greenhouses and plant factories. Acta Horticulturae, 2016, , 285-292.	0.2	38
393	Forecasting Building Energy Demands for New York City With a Coupled Weather-Building Energy Model. , 2016, , .		1
394	Review of occupancy sensing systems and occupancy modeling methodologies for the application in in in institutional buildings. Energy and Buildings, 2016, 121, 344-349.	6.7	166
395	A new method for optimizing operation of large neighborhoods of buildings using thermal simulation. Energy and Buildings, 2016, 125, 153-160.	6.7	21
396	Amelioration of the cooling load based chiller sequencing control. Applied Energy, 2016, 168, 204-215.	10.1	85
397	Energy savings and emissions reductions associated with increased insulation for new homes in the United States. Building and Environment, 2016, 96, 72-79.	6.9	20
398	Informed Geometries. Parametric Modelling and Energy Analysis in Early Stages of Design. Energy Procedia, 2016, 85, 9-16.	1.8	32
399	A two-level approach to large mixed-integer programs with application to cogeneration in energy-efficient buildings. Computational Optimization and Applications, 2016, 65, 1-46.	1.6	22
400	Towards fast energy performance evaluation: A pilot study for office buildings. Energy and Buildings, 2016, 121, 104-113.	6.7	10
401	Validation of a lumped RC model for thermal simulation of a double skin natural and mechanical ventilated test cell. Energy and Buildings, 2016, 121, 92-103.	6.7	39
402	A stochastic model of integrating occupant behaviour into energy simulation with respect to actual energy consumption in high-rise apartment buildings. Energy and Buildings, 2016, 121, 205-216.	6.7	47
403	Short-term building energy model recommendation system: A meta-learning approach. Applied Energy, 2016, 172, 251-263.	10.1	80
404	Data analytics for simplifying thermal efficiency planning in cities. Journal of the Royal Society Interface, 2016, 13, 20150971.	3.4	24
405	Computational intelligence techniques for HVAC systems: A review. Building Simulation, 2016, 9, 359-398.	5.6	167
406	Comparative Calculation of Heat Exchange with the Ground in Residential Building Including Periodes of Heat Waves. Civil and Environmental Engineering Reports, 2016, 21, 109-119.	0.3	4
407	Evaluation of "Autotune―calibration against manual calibration of building energy models. Applied Energy, 2016, 182, 115-134.	10.1	65

#	ARTICLE	IF	CITATIONS
408	Multi-objective optimization of building energy performance and indoor thermal comfort: A new method using artificial bee colony (ABC). Energy and Buildings, 2016, 131, 42-53.	6.7	126
409	Energy Retrofit of a Day Care Center for Current and Future Weather Scenarios. Procedia Engineering, 2016, 145, 1330-1337.	1.2	6
410	The Energy Performance Evaluation of Buildings in an Evolving Built Environment: An Operative Methodology. Energy Procedia, 2016, 91, 1005-1011.	1.8	2
411	Comparison of measured and simulated performance of natural displacement ventilation systems for classrooms. Energy and Buildings, 2016, 133, 185-196.	6.7	22
412	Targeting Optimal Design and Operation of Solar Heated Industrial Processes: A MILP Formulation. Energy Procedia, 2016, 91, 668-680.	1.8	6
413	Modelling the effect of tree-shading on summer indoor and outdoor thermal condition of two similar buildings in a Nigerian university. Energy and Buildings, 2016, 130, 721-732.	6.7	87
414	Active Learning in Multi-objective Evolutionary Algorithms for Sustainable Building Design. , 2016, , .		1
415	Building energy modeling (BEM) using clustering algorithms and semi-supervised machine learning approaches. Automation in Construction, 2016, 72, 187-194.	9.8	44
416	Energy savings due to the use of PCM for relocatable lightweight buildings passive heating and cooling in different weather conditions. Energy and Buildings, 2016, 129, 274-283.	6.7	158
417	Systematic approach for the life cycle multi-objective optimization of buildings combining objective reduction and surrogate modeling. Energy and Buildings, 2016, 130, 506-518.	6.7	38
418	Implications of high-penetration renewables for ratepayers and utilities in the residential solar photovoltaic (PV) market. Applied Energy, 2016, 180, 37-51.	10.1	64
419	A review on building energy efficient design optimization rom the perspective of architects. Renewable and Sustainable Energy Reviews, 2016, 65, 872-884.	16.4	177
420	Development of 2D dynamic model for hydrogen-fed and methane-fed solid oxide fuel cells. Journal of Power Sources, 2016, 328, 91-104.	7.8	26
421	Impact of aperture separation on wind-driven single-sided natural ventilation. Building and Environment, 2016, 108, 122-134.	6.9	41
422	A new analytical approach for simplified thermal modelling of buildings: Self-Adjusting RC-network model. Energy and Buildings, 2016, 130, 85-97.	6.7	34
423	Usability of energy performance assessment tools for different use purposes with the focus on refurbishment projects. Energy and Buildings, 2016, 127, 217-228.	6.7	6
424	Efficient Genetic Algorithm sets for optimizing constrained building design problem. International Journal of Sustainable Built Environment, 2016, 5, 123-131.	3.2	18
425	Sensor Fault Diagnosis. Foundations and Trends in Systems and Control, 2016, 3, 249-362.	7.5	27

#	Article	IF	CITATIONS
426	Generation of typical meteorological years for the Argentine Littoral Region. Energy and Buildings, 2016, 129, 432-444.	6.7	34
427	Painting with light: An interactive evolutionary system for daylighting design. Building and Environment, 2016, 109, 154-174.	6.9	14
428	Modeling of Methods to Control Heat-Consumption Efficiency. Journal of Engineering Physics and Thermophysics, 2016, 89, 1380-1387.	0.6	1
429	Optimal control of indoor-air cooling in buildings using a reduced order model. Energy, 2016, 116, 1191-1204.	8.8	2
430	A novel multi-market optimization problem for commercial heating, ventilation, and air-conditioning systems providing ancillary services using multi-zone inverse comprehensive room transfer functions. Science and Technology for the Built Environment, 2016, 22, 783-797.	1.7	20
431	Overview of cyber-physical temperature estimation in smart buildings: From modeling to measurements. , 2016, , .		4
432	Online Unusual Behavior Detection for Temperature Sensor Networks. , 2016, , .		0
433	Energy retrofit for a climate resilient child care centre. Energy and Buildings, 2016, 127, 1117-1132.	6.7	36
434	Integrating building performance simulation in agent-based modeling using regression surrogate models: A novel human-in-the-loop energy modeling approach. Energy and Buildings, 2016, 128, 214-223.	6.7	53
435	Energy saving potential of natural ventilation in China: The impact of ambient air pollution. Applied Energy, 2016, 179, 660-668.	10.1	225
436	Thermal management of LED lighting integrated with HVAC systems in office buildings. Energy and Buildings, 2016, 127, 1159-1170.	6.7	10
437	Life-time performance of post-disaster temporary housing: A case study in Nanjing. Energy and Buildings, 2016, 128, 394-404.	6.7	27
438	Optimising urban energy systems: Simultaneous system sizing, operation and district heating network layout. Energy, 2016, 116, 619-636.	8.8	155
439	Cyclic overlapping block coordinate search for optimizing building design. Automation in Construction, 2016, 71, 242-261.	9.8	4
440	Residential building design optimisation using sensitivity analysis and genetic algorithm. Energy and Buildings, 2016, 133, 853-866.	6.7	99
441	Virtual temperature measurement for smart buildings via Bayesian model fusion. , 2016, , .		7
442	Towards a generic procedure for modeling buildings and their thermal zones. , 2016, , .		0
443	Learning-based occupancy behavior detection for smart buildings. , 2016, , .		5

#	Article	IF	CITATIONS
444	Horizontal and compact ground heat exchangers. , 2016, , 117-156.		2
446	Modeling the impact of residential HVAC filtration on indoor particles of outdoor origin (RP-1691). Science and Technology for the Built Environment, 2016, 22, 431-462.	1.7	22
447	ShadingPlus—a fast simulation tool for building shading analysis. Energy Efficiency, 2016, 9, 239-248.	2.8	3
448	The variation of climate change impact on building energy consumption to building type and spatiotemporal scale. Energy, 2016, 111, 137-153.	8.8	90
449	Cost-effective energy saving measures based on BIM technology: Case study at National Taiwan University. Energy and Buildings, 2016, 127, 433-441.	6.7	43
450	Detailed analysis on part load ratio characteristics and cooling energy saving of chiller staging in an office building. Energy and Buildings, 2016, 119, 309-322.	6.7	44
451	Summer operative temperatures in free running existing buildings with high glazed ratio of the facades. Journal of Building Engineering, 2016, 6, 236-242.	3.4	26
452	Energetic and economic feasibility analysis of utilizing waste heat from incineration facility and power plant for large-scale horticulture facilities. Applied Thermal Engineering, 2016, 105, 577-593.	6.0	5
453	A pattern-based automated approach to building energy model calibration. Applied Energy, 2016, 165, 214-224.	10.1	78
454	The effect of spatial and temporal randomness of stochastically generated occupancy schedules on the energy performance of a multiresidential building. Energy and Buildings, 2016, 127, 279-300.	6.7	26
455	Design for structural and energy performance of long span buildings using geometric multi-objective optimization. Energy and Buildings, 2016, 127, 748-761.	6.7	71
456	A framework to integrate object-oriented physical modelling with building information modelling for building thermal simulation. Journal of Building Performance Simulation, 2016, 9, 50-69.	2.0	36
457	Occupants' impact on indoor thermal comfort: a co-simulation study on stochastic control of solar shades. Journal of Building Performance Simulation, 2016, 9, 272-287.	2.0	32
458	Electric load management approaches for peak load reduction: A systematic literature review and state of the art. Sustainable Cities and Society, 2016, 20, 124-141.	10.4	64
459	Coupling the multizone airflow and contaminant transport software CONTAM with EnergyPlus using co-simulation. Building Simulation, 2016, 9, 469-479.	5.6	66
460	Thermal modeling for energy-efficient smart building with advanced overfitting mitigation technique. , 2016, , .		0
461	Eco-costs evaluation for the optimal design of buildings with lower environmental impact. Energy and Buildings, 2016, 119, 189-199.	6.7	18
462	Optimization framework for distributed energy systems with integrated electrical grid constraints. Applied Energy, 2016, 171, 296-313.	10.1	121

		EPORI	
#	Article	IF	Citations
463	DR-Advisor: A data-driven demand response recommender system. Applied Energy, 2016, 170, 30-46.	10.1	63
464	Energy performance model development and occupancy number identification of institutional buildings. Energy and Buildings, 2016, 123, 192-204.	6.7	36
465	Managing demand uncertainty with cost-for-deviation retail pricing. Energy and Buildings, 2016, 118, 46-56.	6.7	11
466	Building energy simulation in real time through an open standard interface. Energy and Buildings, 2016, 117, 282-289.	6.7	18
467	Performance of Semi-transparent Photovoltaic Façades. , 2016, , 279-320.		1
468	Simulation-Based Evaluation of Adaptive Materials for Improved Building Performance. , 2016, , 125-166.		1
469	How to assess and manage energy performance of numerous telecommunication base stations: Evidence in China. Applied Energy, 2016, 164, 436-445.	10.1	9
470	A HPC based cloud model for real-time energy optimisation. Enterprise Information Systems, 2016, 10, 108-128.	4.7	12
471	A taxonomy of data types and data collection methods for building energy monitoring and performance simulation. Advances in Building Energy Research, 2016, 10, 263-293.	2.3	16
472	Towards a green sustainable strategy for Mediterranean cities: Assessing the benefits of large-scale green roofs implementation in Thessaloniki, Northern Greece, using environmental modelling, GIS and very high spatial resolution remote sensing data. Renewable and Sustainable Energy Reviews, 2016, 58, 510-525.	16.4	116
473	Simulating the Inter-Building Effect on energy consumption from embedding phase change materials in building envelopes. Sustainable Cities and Society, 2016, 27, 287-295.	10.4	50
474	Preparation of glass ceramic foams for thermal insulation applications from coal fly ash and waste glass. Construction and Building Materials, 2016, 112, 398-405.	7.2	211
475	Integrated numerical and experimental methodology for thermal-energy analysis and optimization of heritage museum buildings. Building Services Engineering Research and Technology, 2016, 37, 334-354.	1.8	12
476	Estimating the impact of climate change and local operational procedures on the energy use in several supermarkets throughout Great Britain. Energy and Buildings, 2016, 111, 109-119.	6.7	16
477	Analysis of the predicted effect of passive climate adaptation measures on energy demand for cooling and heating in a residential building. Energy, 2016, 94, 811-820.	8.8	97
478	An occupant behavior modeling tool for co-simulation. Energy and Buildings, 2016, 117, 272-281.	6.7	134
479	Improvement of thermal performance through window surface with interior blind by analyzing detailed heat transfer. Building Simulation, 2016, 9, 127-139.	5.6	2
480	Occupancy-based demand response and thermal comfort optimization in microgrids with renewable energy sources and energy storage. Applied Energy, 2016, 163, 93-104.	10.1	281

#	Article	IF	CITATIONS
481	A flexible and time-efficient schedule-based communication tool for integrated lighting and thermal simulations of spaces with controlled artificial lighting and complex fenestration systems. Journal of Building Performance Simulation, 2016, 9, 382-396.	2.0	11
482	Variable-speed air-to-air heat pump modelling approaches for building energy simulation and comparison with experimental data. Journal of Building Performance Simulation, 2016, 9, 210-225.	2.0	4
483	Validation of numerical simulation tools for wind-driven natural ventilation design. Building Simulation, 2016, 9, 75-87.	5.6	39
484	Development and validation of a new variable refrigerant flow system model in EnergyPlus. Energy and Buildings, 2016, 117, 399-411.	6.7	62
486	Timing residential photovoltaic investments in the presence of demand uncertainties. Sustainable Cities and Society, 2016, 20, 109-123.	10.4	22
487	Coupling indoor airflow, HVAC, control and building envelope heat transfer in the Modelica <i>Buildings</i> library. Journal of Building Performance Simulation, 2016, 9, 366-381.	2.0	38
488	On an innovative integrated technique for energy refurbishment of historical buildings: Thermal-energy, economic and environmental analysis of a case study. Applied Energy, 2016, 162, 1313-1322.	10.1	101
489	A simplified model for estimating population-scale energy impacts of building envelope air tightening and mechanical ventilation retrofits. Journal of Building Performance Simulation, 2016, 9, 1-16.	2.0	7
490	Big data: the key to energy efficiency in smart buildings. Soft Computing, 2016, 20, 1749-1762.	3.6	58
491	Exploring mutual shading and mutual reflection inter-building effects on building energy performance. Applied Energy, 2017, 185, 1556-1564.	10.1	84
491 492		10.1 2.8	84
	A global survey of adverse energetic effects of increased wall insulation in office buildings: degree		
492	<ul> <li>performance. Applied Energy, 2017, 185, 1556-1564.</li> <li>A global survey of adverse energetic effects of increased wall insulation in office buildings: degree day and climate zone indicators. Energy Efficiency, 2017, 10, 97-116.</li> <li>Ubiquitous luminance sensing using the Raspberry Pi and Camera Module system. Lighting Research</li> </ul>	2.8	10
492 493	<ul> <li>performance. Applied Energy, 2017, 185, 1556-1564.</li> <li>A global survey of adverse energetic effects of increased wall insulation in office buildings: degree day and climate zone indicators. Energy Efficiency, 2017, 10, 97-116.</li> <li>Ubiquitous luminance sensing using the Raspberry Pi and Camera Module system. Lighting Research and Technology, 2017, 49, 904-921.</li> <li>Transactive Control of Commercial Buildings for Demand Response. IEEE Transactions on Power</li> </ul>	2.8 2.7	10
492 493 494	<ul> <li>performance. Applied Energy, 2017, 185, 1556-1564.</li> <li>A global survey of adverse energetic effects of increased wall insulation in office buildings: degree day and climate zone indicators. Energy Efficiency, 2017, 10, 97-116.</li> <li>Ubiquitous luminance sensing using the Raspberry Pi and Camera Module system. Lighting Research and Technology, 2017, 49, 904-921.</li> <li>Transactive Control of Commercial Buildings for Demand Response. IEEE Transactions on Power Systems, 2017, 32, 774-783.</li> <li>A low-complexity control mechanism targeting smart thermostats. Energy and Buildings, 2017, 139,</li> </ul>	2.8 2.7 6.5	10 18 204
492 493 494 495	<ul> <li>performance. Applied Energy, 2017, 185, 1556-1564.</li> <li>A global survey of adverse energetic effects of increased wall insulation in office buildings: degree day and climate zone indicators. Energy Efficiency, 2017, 10, 97-116.</li> <li>Ubiquitous luminance sensing using the Raspberry Pi and Camera Module system. Lighting Research and Technology, 2017, 49, 904-921.</li> <li>Transactive Control of Commercial Buildings for Demand Response. IEEE Transactions on Power Systems, 2017, 32, 774-783.</li> <li>A low-complexity control mechanism targeting smart thermostats. Energy and Buildings, 2017, 139, 340-350.</li> <li>Occupancy modelling in shared spaces of buildings: a queueing approach. Journal of Building</li> </ul>	2.8 2.7 6.5 6.7	10 18 204 14
492 493 494 495 496	performance. Applied Energy, 2017, 185, 1556-1564.         A global survey of adverse energetic effects of increased wall insulation in office buildings: degree day and climate zone indicators. Energy Efficiency, 2017, 10, 97-116.         Ubiquitous luminance sensing using the Raspberry Pi and Camera Module system. Lighting Research and Technology, 2017, 49, 904-921.         Transactive Control of Commercial Buildings for Demand Response. IEEE Transactions on Power Systems, 2017, 32, 774-783.         A low-complexity control mechanism targeting smart thermostats. Energy and Buildings, 2017, 139, 340-350.         Occupancy modelling in shared spaces of buildings: a queueing approach. Journal of Building Performance Simulation, 2017, 10, 406-421.         Evaluation of building glass performance metrics for the tropical climate. Energy and Buildings, 2017,	<ul> <li>2.8</li> <li>2.7</li> <li>6.5</li> <li>6.7</li> <li>2.0</li> </ul>	10 18 204 14 10

ARTICLE IF CITATIONS # Decarbonizing the electricity grid: The impact on urban energy systems, distribution grids and district 500 10.1 79 heating potential. Applied Energy, 2017, 191, 125-140. Suitable thermal insulation solutions for Mediterranean climatic conditions: a case study for four 501 2.8 Greek cities. Energy Efficiency, 2017, 10, 1081-1098. Simulation of the effect of fine particle pollution on the potential for natural ventilation of 502 6.9 36 non-domestic buildings in European cities. Building and Environment, 2017, 115, 236-250. Guidelines for developing efficient thermal conduction and storage models within building energy simulations. Energy, 2017, 125, 211-222. Forecasting Building Energy Demands With a Coupled Weather-Building Energy Model in a Dense 504 1.8 21 Urban Environment. Journal of Solar Energy Engineering, Transactions of the ASME, 2017, 139, . A comparative energy analysis of three electrochromic glazing technologies in commercial and residential buildings. Applied Energy, 2017, 192, 95-109. 10.1 108 A probabilistic portfolio-based model for financial valuation of community solar. Applied Energy, 2017, 506 10.1 24 191, 709-726. Development and numerical validation of a new model for walls with phase change materials 2.0 implemented in TRNSYS. Journal of Building Performance Simulation, 2017, 10, 422-437. Comparison between simplified and detailed EnergyPlus models coupled with an urban canopy model. 508 6.7 36 Energy and Buildings, 2017, 157, 116-125. Inverse modeling of the urban energy system using hourly electricity demand and weather measurements, Part 2: Gray-box model. Energy and Buildings, 2017, 157, 139-156. 509 Invariant probabilistic sensitivity analysis for building energy models. Journal of Building 510 2.0 6 Performance Simulation, 2017, 10, 392-405. Energy consumption in buildings: A correlation for the influence of window to wall ratio and 3.4 window orientation in Tripoli, Libya. Journal of Building Engineering, 2017, 11, 82-86. Assessing the urban heat island and its energy impact on residential buildings in Mediterranean 512 6.7 140 climate: Barcelona case study. Energy and Buildings, 2017, 146, 38-54. Assessment of Cost Optimal Solutions for High Performance Multi-family Buildings in Iran. Energy Procedia, 2017, 111, 318-327. 1.8 A method for creating maps of recommended window-to-wall ratios to assign appropriate default values in design performance modeling: A case study of a typical office building in Japan. Energy and 514 6.7 37 Buildings, 2017, 145, 304-317. Experimental evaluation and simulation of a variable refrigerant- flow (VRF) air-conditioning system with outdoor air processing unit. Energy and Buildings, 2017, 146, 122-140. Energy performance of an exhibition hall in a life cycle perspective: embodied energy, operational 516 2.8 7 energy and retrofit strategies. Energy Efficiency, 2017, 10, 1343-1364. A framework for quantifying the impact of occupant behavior on energy savings of energy 145 6.7 conservation measures. Energy and Buildings, 2017, 146, 383-396.

#	Article	IF	CITATIONS
518	Smart building uncertainty analysis via adaptive Lasso. IET Cyber-Physical Systems: Theory and Applications, 2017, 2, 42-48.	3.3	6
519	Development of a new multi-stage building energy model calibration methodology and validation in a public library. Energy and Buildings, 2017, 146, 182-199.	6.7	44
520	Prediction and comparison of monthly indoor heat stress (WBGT and PHS) for RMG production spaces in Dhaka, Bangladesh. Sustainable Cities and Society, 2017, 29, 41-57.	10.4	13
521	A climatological validation of urban air temperature and electricity demand simulated by a regional climate model coupled with an urban canopy model and a building energy model in an Asian megacity. International Journal of Climatology, 2017, 37, 1035-1052.	3.5	36
522	Optimal design and dispatch of a system of diesel generators, photovoltaics and batteries for remote locations. Optimization and Engineering, 2017, 18, 755-792.	2.4	26
523	Dynamic LCA framework for environmental impact assessment of buildings. Energy and Buildings, 2017, 149, 310-320.	6.7	93
524	Modelling of AQI related to building space heating energy demand based on big data analytics. Applied Energy, 2017, 203, 57-71.	10.1	41
525	Simulation-based optimization of PCM melting temperature to improve the energy performance in buildings. Applied Energy, 2017, 202, 420-434.	10.1	226
526	Simulation of Occupancy and CO 2 -based Demand-controlled Mechanical Ventilation Strategies in an Office Room Using EnergyPlus. Energy Procedia, 2017, 113, 51-57.	1.8	13
527	Progress in building-integrated solar thermal systems. Solar Energy, 2017, 154, 158-186.	6.1	64
528	Modeling of HVAC operational faults in building performance simulation. Applied Energy, 2017, 202, 178-188.	10.1	113
529	DALEC – a novel web tool for integrated day- and artificial light and energy calculation. Journal of Building Performance Simulation, 2017, 10, 344-363.	2.0	14
530	From urban climate to energy consumption. Enhancing building performance simulation by including the urban heat island effect. Energy and Buildings, 2017, 145, 107-120.	6.7	119
531	Open-source energy planning tool with easy-to-parameterize components for the conception of polygeneration systems. Energy, 2017, 126, 756-765.	8.8	8
532	Temperature and cooling demand reduction by green-roof types in different climates and urban densities: A co-simulation parametric study. Energy and Buildings, 2017, 145, 226-237.	6.7	182
533	Simulation and visualization of energy-related occupant behavior in office buildings. Building Simulation, 2017, 10, 785-798.	5.6	59
534	A simulation approach to estimate energy savings potential of occupant behavior measures. Energy and Buildings, 2017, 136, 43-62.	6.7	87
535	Equivalent full-load hours for assessing climate change impact on building cooling and heating energy consumption in large Asian cities. Applied Energy, 2017, 189, 352-368.	10.1	72

ARTICLE IF CITATIONS # A relevant data selection method for energy consumption prediction of low energy building based on 536 6.7 119 support vector machine. Energy and Buildings, 2017, 138, 240-256. Impact of outdoor PM2.5 on natural ventilation usability in California's nondomestic buildings. 10.1 Applied Energy, 2017, 189, 711-724. Net-zero energy building clusters emulator for energy planning and operation evaluation. Computers, 538 7.1 35 Environment and Urban Systems, 2017, 62, 168-181. Analysis on the performance of a high efficiency administrative building in Spain. International Journal of Green Energy, 2017, 14, 55-62. Influence of simulation assumptions and input parameters on energy balance calculations of 540 8.8 30 residential buildings. Energy, 2017, 120, 718-730. Thermal comfort improvement of naturally ventilated patient wards in Singapore. Energy and Buildings, 2017, 154, 499-512. 6.7 Energy (electricity) consumption in South African hotels: A panel data analysis. Energy and Buildings, 542 6.7 18 2017, 156, 207-217. Indoor heat stress and cooling energy comparison between green roof (GR) and non-green roof (n-GR) by simulations for labor intensive factories in the tropics. International Journal of Sustainable Built 3.2 Énvironment, 2017, 6, 449-462. Thermal and energy performance of a steel-bamboo composite wall structure. Energy and Buildings, 544 6.7 41 2017, 156, 225-237. A simultaneous calibration and parameter ranking method for building energy models. Applied Energy, 545 10.1 2017, 206, 657-666. Software-supported identification of an economically optimized retrofit order by minimizing 546 3 1.8 life-cycle costs using a genetic algorithm including constraints. Energy Procedia, 2017, 122, 739-744. Experimental validation and comparison of direct solar shading calculations within building energy simulation tools: Polygon clipping and pixel counting techniques. Solar Energy, 2017, 158, 462-473. 6.1 Comprehensive approach to modeling and simulation of dynamic soft-sensing design for real-time 548 building energy consumption. International Journal of Distributed Sensor Networks, 2017, 13, 2.2 2 155014771770493. Machine-code functions in BIM for cost-effective high-quality buildings. Energy and Buildings, 2017, 549 6.7 Simulation Model of Automated HVAC System Control Strategy With Thermal Comfort and Occupancy 550 1 Considerations., 2017,,. An FMI-enabled methodology for modular building performance simulation based on Semantic Web Technologies. Building and Environment, 2017, 125, 49-59. Automatic HVAC control with real-time occupancy recognition and simulation-guided model 552 6.7 116 predictive control in low-cost embedded system. Énergy and Buildings, 2017, 154, 141-156. Impact of street canyon typology on building's peak cooling energy demand: A parametric analysis using orthogonal experiment. Energy and Buildings, 2017, 154, 448-464.

#	Article	IF	CITATIONS
554	Influence of an unheated apartment on the heating consumption of residential building considering current regulations—Case of Serbia. Energy and Buildings, 2017, 155, 16-24.	6.7	12
555	Comprehensive evaluation of the influence of meta-models on Bayesian calibration. Energy and Buildings, 2017, 155, 66-75.	6.7	64
556	Influence of climate change on summer cooling costs and heat stress in urban office buildings. Climatic Change, 2017, 144, 721-735.	3.6	19
557	Usability evaluation of a web-based tool for supporting holistic building energy management. Automation in Construction, 2017, 84, 154-165.	9.8	70
558	A Flexible Decision-Making Mechanism Targeting Smart Thermostats. IEEE Embedded Systems Letters, 2017, 9, 105-108.	1.9	7
559	A general method to evaluate the thermal impact of complex fenestration systems in building zones. Energy and Buildings, 2017, 155, 43-53.	6.7	8
561	Simulation-Based Architectural Design. Simulation Foundations, Methods and Applications, 2017, , 167-182.	0.1	3
562	An energy performance evaluation methodology for individual office building with dynamic energy benchmarks using limited information. Applied Energy, 2017, 206, 193-205.	10.1	27
563	Potential analysis of a new removable insulation system. Energy and Buildings, 2017, 154, 391-403.	6.7	37
564	Modeling of the renewable energy system of an net zero energy community. , 2017, , .		7
565	Modeling of district load forecasting for distributed energy system. Applied Energy, 2017, 204, 181-205.	10.1	91
566	An energy-efficient predictive control for HVAC systems applied to tertiary buildings based on regression techniques. Energy and Buildings, 2017, 152, 409-417.	6.7	52
567	Assessing the value of information in residential building simulation: Comparing simulated and actual building loads at the circuit level. Applied Energy, 2017, 203, 348-363.	10.1	24
568	Data-driven planning of distributed energy resources amidst socio-technical complexities. Nature Energy, 2017, 2, .	39.5	73
569	Simplified field measurement and verification of global solar transmittance for glazing samples under natural clear-sky conditions. Solar Energy, 2017, 155, 706-714.	6.1	6
570	Effectiveness and viability of residential building energy retrofits in Dubai. Journal of Building Engineering, 2017, 13, 116-126.	3.4	33
571	Electric load shape benchmarking for small- and medium-sized commercial buildings. Applied Energy, 2017, 204, 715-725.	10.1	75
572	PMV-based event-triggered mechanism for building energy management under uncertainties. Energy and Buildings, 2017, 152, 73-85.	6.7	69

#	Article	IF	CITATIONS
573	Does window-to-wall ratio have a significant effect on the energy consumption of buildings? A parametric analysis in Italian climate conditions. Journal of Building Engineering, 2017, 13, 169-183.	3.4	108
574	A computational multi-objective optimization method to improve energy efficiency and thermal comfort in dwellings. Energy and Buildings, 2017, 154, 283-294.	6.7	99
575	Built environment energy trade-offs scaling. Energy, 2017, 141, 1374-1383.	8.8	0
576	Towards Generalized Co-simulation of Urban Energy Systems. Procedia Engineering, 2017, 198, 366-374.	1.2	21
577	Optimization of roof solar reflectance under different climate conditions, occupancy, building configuration and energy systems. Energy and Buildings, 2017, 151, 81-97.	6.7	29
578	Prediction model of Cooling Load considering time-lag for preemptive action in buildings. Energy and Buildings, 2017, 151, 53-65.	6.7	13
579	Coordinated optimization of multiple buildings with a fair price mechanism for energy exchange. Energy and Buildings, 2017, 151, 132-145.	6.7	29
580	Uncertainty quantification for Energy Savings Performance Contracting: Application to an office building. Energy and Buildings, 2017, 152, 61-72.	6.7	32
581	Investigating natural ventilation potentials across the globe: Regional and climatic variations. Building and Environment, 2017, 122, 386-396.	6.9	140
582	Modeling thermal performance of exterior walls retrofitted from insulation and modified laterite based bricks materials. Heat and Mass Transfer, 2017, 53, 3487-3499.	2.1	8
583	From the Building Level Energy Performance Assessment to the National Level: How are Uncertainties Handled in Building Stock Models. Procedia Engineering, 2017, 180, 1443-1452.	1.2	14
584	Thermal comfort in buildings using radiant vs. all-air systems: A critical literature review. Building and Environment, 2017, 111, 123-131.	6.9	129
585	Ten questions about radiant heating and cooling systems. Building and Environment, 2017, 112, 367-381.	6.9	193
586	Generation of stochastic weather data for uncertainty and sensitivity analysis of a low-energy building. Journal of Building Physics, 2017, 41, 41-57.	2.4	13
587	Automation of CAD models to BEM models for performance based goal-oriented design methods. Building and Environment, 2017, 112, 144-158.	6.9	27
588	Taming the killer in the kitchen: mitigating household air pollution from solid-fuel cookstoves through building design. Clean Technologies and Environmental Policy, 2017, 19, 705-719.	4.1	10
589	Integrated automation for optimal demand management in commercial buildings considering occupant comfort. Sustainable Cities and Society, 2017, 28, 16-29.	10.4	50
590	Sensitivity Analysis for Building Energy Simulation Model Calibration via Algorithmic Differentiation. IEEE Transactions on Automation Science and Engineering, 2017, 14, 905-914.	5.2	12

	CITATION	CITATION REPORT	
#	Article	IF	CITATIONS
591	On the simulation repetition and temporal discretization of stochastic occupant behaviour models in building performance simulation. Journal of Building Performance Simulation, 2017, 10, 612-624.	2.0	21
592	A versatile modeling approach to monitoring and reduction of energy consumption of telecommunication cooling systems. Energy Efficiency, 2017, 10, 419-440.	2.8	4
593	Impact of external insulation and internal thermal density upon energy consumption of buildings in a temperate climate with four distinct seasons. Renewable and Sustainable Energy Reviews, 2017, 75, 1081-1088.	16.4	40
594	Co-simulation of a HVAC system-integrated phase change material thermal storage unit. Journal of Building Performance Simulation, 2017, 10, 313-325.	2.0	12
595	Anthropogenic heat reduction through retrofitting strategies of campus buildings. Energy and Buildings, 2017, 152, 813-822.	6.7	20
596	Cost Optimal Integration of Flexible Buildings in Congested Distribution Grids. IEEE Transactions on Power Systems, 2017, 32, 2254-2266.	6.5	53
597	A Learning Framework for Control-Oriented Modeling of Buildings. , 2017, , .		8
598	Data predictive control using regression trees and ensemble learning. , 2017, , .		19
599	Addressing the challenges of public housing retrofits. Energy Procedia, 2017, 134, 442-451.	1.8	29
600	A high performance home in the Mediterranean climate: from the design principle to actual measurements. Energy Procedia, 2017, 140, 67-79.	1.8	23
601	The Effects of Different Land Covers on Foundation Heat Exchangers Design in Chinese Rural Areas. Procedia Engineering, 2017, 205, 2449-2456.	1.2	0
602	Energy Performance Simulation in Residential Buildings. Procedia Engineering, 2017, 205, 4187-4194.	1.2	16
603	Selective distributed model predictive control for comfort satisfaction in multi-zone buildings. , 2017, , .		0
604	Modeling and optimization of complex building energy systems with deep neural networks. , 2017, , .		21
605	Dynamic Building Environment Dashboard: Spatial Simulation Data Visualization in Sustainable Design. Technology Architecture and Design, 2017, 1, 27-40.	0.2	9
606	Sensitivity analysis of medical centers energy consumption with EnergyPlus. , 2017, , .		3
607	Adaptive optimization for smart operation of cyber-physical systems: A thermostatic zoning test case. , 2017, , .		0
608	Right-sizing Solar PV and Storage for Household Consumer Using Agent Based Modeling. Energy Procedia, 2017, 142, 432-438.	1.8	2

#	Article	IF	Citations
609	Data driven modeling for energy consumption prediction in smart buildings. , 2017, , .		19
610	Stochastic Characteristics of Manual Solar Shades and their Influence on Building Energy Performance. Sustainability, 2017, 9, 1070.	3.2	3
611	Energy Efficiency for Airtightness and Exterior Wall Insulation of Passive Houses in Hot Summer and Cold Winter Zone of China. Sustainability, 2017, 9, 1097.	3.2	14
612	Life cycle assessment of transparent organic photovoltaic for window applications. , 2017, , .		1
613	An Assisted Workflow for the Early Design of Nearly Zero Emission Healthcare Buildings. Energies, 2017, 10, 993.	3.1	12
614	Multidisciplinary Energy Assessment of Tertiary Buildings: Automated Geomatic Inspection, Building Information Modeling Reconstruction and Building Performance Simulation. Energies, 2017, 10, 1032.	3.1	17
615	Hygrothermal Dynamic and Mould Growth Risk Predictions for Concrete Tiles by Using Least Squares Support Vector Machines. Energies, 2017, 10, 1093.	3.1	12
616	Optimizing Energy Efficiency in Operating Built Environment Assets through Building Information Modeling: A Case Study. Energies, 2017, 10, 1167.	3.1	62
617	Using Thermostats for Indoor Climate Control in Office Buildings: The Effect on Thermal Comfort. Energies, 2017, 10, 1368.	3.1	37
618	Validation of Calibrated Energy Models: Common Errors. Energies, 2017, 10, 1587.	3.1	211
619	An Improved Optimization Function for Maximizing User Comfort with Minimum Energy Consumption in Smart Homes. Energies, 2017, 10, 1818.	3.1	40
620	Towards a New Generation of Building Envelope Calibration. Energies, 2017, 10, 2102.	3.1	29
621	Renewable Energy Potential by the Application of a Building Integrated Photovoltaic and Wind Turbine System in Global Urban Areas. Energies, 2017, 10, 2158.	3.1	13
622	Online Model Learning of Buildings Using Stochastic Hybrid Systems Based on Gaussian Processes. Journal of Control Science and Engineering, 2017, 2017, 1-18.	1.0	3
623	Study on the Thermal Properties of Hollow Shale Blocks as Self-Insulating Wall Materials. Advances in Materials Science and Engineering, 2017, 2017, 1-12.	1.8	22
624	Modelling of Shaded and Unshaded Shallow-Ground Heat Pump System for a Residential Building Block in a Mediterranean Climate. Journal of Physics: Conference Series, 2017, 796, 012017.	0.4	0
625	COD., 2017,,.		9
626	A forecasting method of air conditioning energy consumption based on extreme learning machine algorithm. , 2017, , .		4

#	Article	IF	CITATIONS
627	The Impact of Shading Type and Azimuth Orientation on the Daylighting in a Classroom–Focusing on Effectiveness of Façade Shading, Comparing the Results of DA and UDI. Energies, 2017, 10, 635.	3.1	24
628	An Energy-Efficient Approach for Controlling Heating and Air-Conditioning Systems. , 2017, , .		3
629	Avaliação da influência do contexto urbano na radiação solar para geração de energia. Urbe, 2017, 9, 408-424.	0.3	1
630	Comparison between monitored and simulated data using evolutionary algorithms: Reducing the performance gap in dynamic building simulation. Journal of Building Engineering, 2018, 17, 96-106.	3.4	38
631	Data-Enabled Building Energy Savings (D-E BES). Proceedings of the IEEE, 2018, 106, 661-679.	21.3	15
632	Brick : Metadata schema for portable smart building applications. Applied Energy, 2018, 226, 1273-1292.	10.1	129
633	A Game-Theoretic Decentralized Model Predictive Control of Thermal Appliances in Discrete-Event Systems Framework. IEEE Transactions on Industrial Electronics, 2018, 65, 6446-6456.	7.9	12
634	Thermal performance evaluation of low-income buildings based on indoor temperature performance. Applied Energy, 2018, 221, 425-436.	10.1	15
635	Low-emissivity coating coupled with aerogel-based plaster for walls' internal surface application in buildings: Energy saving potential based on thermal comfort assessment. Journal of Building Engineering, 2018, 18, 454-466.	3.4	45
636	Occupant perceptions of building information model-based energy visualizations in eco-feedback systems. Applied Energy, 2018, 221, 220-228.	10.1	66
637	Forecasting the heating and cooling load of residential buildings by using a learning algorithm "gradient descentâ€, Morocco. Case Studies in Thermal Engineering, 2018, 12, 85-93.	5.7	47
638	Universal approach to modelling multi-layer structures in building energy simulations. Energy and Buildings, 2018, 170, 122-133.	6.7	1
639	Predicting the performance of radiant technologies in attics: Reducing the discrepancies between attic specific and whole-building energy models. Energy and Buildings, 2018, 169, 69-83.	6.7	3
640	A Geodesign Method of Human-Energy-Water Interactive Systems for Urban Infrastructure Design: 10KM2 Near-Zero District Project in Shanghai. Engineering, 2018, 4, 182-189.	6.7	9
641	Implementation and verification of the IDEAS building energy simulation library. Journal of Building Performance Simulation, 2018, 11, 669-688.	2.0	90
642	Building energy simulation coupled with CFD for indoor environment: A critical review and recent applications. Energy and Buildings, 2018, 165, 184-199.	6.7	87
643	Performance analysis of a large geothermal heating and cooling system. Renewable Energy, 2018, 122, 429-442.	8.9	31
644	Data-Driven Model Predictive Control with Regression Trees—An Application to Building Energy Management. ACM Transactions on Cyber-Physical Systems, 2018, 2, 1-21.	2.5	42

#	Article	IF	CITATIONS
645	Optimal operation of building microgrids – comparison with mixed-integer linear and continuous non-linear programming approaches. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2018, 37, 603-616.	0.9	1
646	A multi-objective design optimisation strategy for hybrid photovoltaic thermal collector (PVT)-solar air heater (SAH) systems with fins. Solar Energy, 2018, 163, 315-328.	6.1	79
647	Performance-based validation of climatic zoning for building energy efficiency applications. Applied Energy, 2018, 212, 416-427.	10.1	35
648	Energy performance of an electrochromic switchable glazing: Experimental and computational assessments. Energy and Buildings, 2018, 165, 390-398.	6.7	54
649	The spatial evaluation of the radiative human body heat exchanges: An effective contribution for limiting energy consumption and achieving better indoor conditions in buildings. Journal of Building Engineering, 2018, 16, 118-128.	3.4	4
650	The re-optimization strategy of multi-layer hybrid building's cooling and heating load soft sensing technology research based on temperature interval and hierarchical modeling techniques. Sustainable Cities and Society, 2018, 38, 42-54.	10.4	15
651	Impact of large scale PV deployment in the sizing of urban distribution transformers. Renewable Energy, 2018, 119, 767-776.	8.9	40
652	Predictive modeling for US commercial building energy use: A comparison of existing statistical and machine learning algorithms using CBECS microdata. Energy and Buildings, 2018, 163, 34-43.	6.7	148
653	A thermodynamic analysis of a novel bidirectional district heating and cooling network. Energy, 2018, 144, 20-30.	8.8	63
654	Evaluation of a transient borehole heat exchanger model in dynamic simulation of a ground source heat pump system. Energy, 2018, 147, 81-93.	8.8	31
655	Sensitivity analysis of building energy performance: A simulation-based approach using OFAT and variance-based sensitivity analysis methods. Journal of Building Engineering, 2018, 15, 181-193.	3.4	94
656	Tractable and Robust Modeling of Building Flexibility Using Coarse Data. IEEE Transactions on Power Systems, 2018, 33, 5456-5468.	6.5	7
657	Optimal demand charge reduction for commercial buildings through a combination of efficiency and flexibility measures. Applied Energy, 2018, 221, 180-194.	10.1	19
658	An optimised logarithmic discretisation approach for accurate and efficient compact thermal models. Energy, 2018, 147, 995-1006.	8.8	1
659	Computational methods for ground thermal response of multiple borehole heat exchangers: A review. Renewable Energy, 2018, 127, 461-473.	8.9	22
660	Hourly simulations of an hospital building for assessing the thermal demand and the best retrofit strategies for consumption reduction. Thermal Science and Engineering Progress, 2018, 6, 388-397.	2.7	16
661	Volume element model for 3D dynamic building thermal modeling and simulation. Energy, 2018, 148, 642-661.	8.8	18
662	An integrative approach for embodied energy: Towards an LCA -based data-driven design method. Renewable and Sustainable Energy Reviews, 2018, 88, 123-132.	16.4	36

#	Article	IF	CITATIONS
663	Uncertainty quantification for modeling night-time ventilation in Stanford's Y2E2 building. Energy and Buildings, 2018, 168, 319-330.	6.7	9
664	Design and analysis of PCM based radiant heat exchanger for thermal management of buildings. Energy and Buildings, 2018, 169, 84-96.	6.7	33
665	A novel Variable Refrigerant Flow (VRF) heat recovery system model: Development and validation. Energy and Buildings, 2018, 168, 399-412.	6.7	34
666	Experimental validation of an electrical and thermal energy demand model for rapid assessment of rural health centers in sub-Saharan Africa. Applied Energy, 2018, 218, 382-390.	10.1	9
667	An automated IFC-based workflow for building energy performance simulation with Modelica. Automation in Construction, 2018, 91, 166-181.	9.8	64
668	On the feature engineering of building energy data mining. Sustainable Cities and Society, 2018, 39, 508-518.	10.4	88
669	Retrofitting solutions for two different occupancy levels of educational buildings in tropics. International Journal of Sustainable Energy, 2018, 37, 81-95.	2.4	5
670	Prototyping a façade-mounted, dynamic, dual-axis daylight redirection system. Lighting Research and Technology, 2018, 50, 583-595.	2.7	10
671	A determination methodology for the spatial profile of the convective heat transfer coefficient on building components. Indoor and Built Environment, 2018, 27, 512-527.	2.8	1
672	TEASER: an open tool for urban energy modelling of building stocks. Journal of Building Performance Simulation, 2018, 11, 84-98.	2.0	142
673	Validated air handling unit model using indirect evaporative cooling. Journal of Building Performance Simulation, 2018, 11, 48-64.	2.0	9
674	An agent-based stochastic Occupancy Simulator. Building Simulation, 2018, 11, 37-49.	5.6	79
675	An energy model of high-rise apartment buildings integrating variation in energy consumption between individual units. Energy and Buildings, 2018, 158, 656-667.	6.7	14
676	Probabilistic energy consumption analysis in buildings using point estimate method. Energy, 2018, 142, 716-722.	8.8	31
677	Evaluation of the effects of one cold wave on heating energy consumption in different regions of northern China. Energy, 2018, 142, 331-338.	8.8	9
678	Performance testing of energy models: are we using the right statistical metrics?. Journal of Building Performance Simulation, 2018, 11, 433-448.	2.0	35
679	Effects of airborne fine particle pollution on the usability of natural ventilation in office buildings in three megacities in Asia. Renewable Energy, 2018, 117, 357-373.	8.9	21
680	A calibration methodology for building dynamic models based on data collected through survey and buildings, 2018, 158, 406-416.	6.7	14

#	Article	IF	CITATIONS
681	Techno-economical Analysis based on a Parametric Computational Evaluation for decision process on envelope technologies and configurations. Energy and Buildings, 2018, 158, 736-749.	6.7	11
682	On the efficiency of quantization-based integration methods for building simulation. Building Simulation, 2018, 11, 405-418.	5.6	8
683	Evaluation of the QUIC-URB wind solver and QESRadiant radiation-transfer model using a dense array of urban meteorological observations. Urban Climate, 2018, 24, 657-674.	5.7	8
684	Uses of dynamic simulation to predict thermalâ€energy performance of buildings and districts: a review. Wiley Interdisciplinary Reviews: Energy and Environment, 2018, 7, e269.	4.1	12
685	Prediction of wind pressure coefficients on building surfaces using artificial neural networks. Energy and Buildings, 2018, 158, 1429-1441.	6.7	128
686	Plant factories versus greenhouses: Comparison of resource use efficiency. Agricultural Systems, 2018, 160, 31-43.	6.1	247
687	Reducing cooling load of buildings in the tropical climate through window glazing: A model to model comparison. Journal of Building Engineering, 2018, 15, 318-327.	3.4	30
688	Building energy model reduction using model-cluster-reduce pipeline. Journal of Building Performance Simulation, 2018, 11, 553-567.	2.0	11
689	Optimisation analysis of PCM-enhanced opaque building envelope components for the energy retrofitting of office buildings in Mediterranean climates. Applied Energy, 2018, 211, 929-953.	10.1	76
690	Particle Swarm optimization for control operation of an all-variable speed water-cooled chiller plant. Applied Thermal Engineering, 2018, 130, 962-978.	6.0	58
691	Simulated building energy demand biases resulting from the use of representative weather stations. Applied Energy, 2018, 209, 516-528.	10.1	16
692	Estimation and optimisation of buildings' thermal load using LiDAR data. Building and Environment, 2018, 128, 12-21.	6.9	16
693	Quantifying the benefits of a building retrofit using an integrated system approach: A case study. Energy and Buildings, 2018, 159, 332-345.	6.7	33
694	Towards adoption of building energy simulation and optimization for passive building design: A survey and a review. Energy and Buildings, 2018, 158, 1306-1316.	6.7	163
695	Minimizing storage needs for large scale photovoltaics in the urban environment. Solar Energy, 2018, 159, 375-389.	6.1	56
696	A Bayesian Network model for predicting cooling load of commercial buildings. Building Simulation, 2018, 11, 87-101.	5.6	23
697	Urban and building multiscale co-simulation: case study implementations on two university campuses. Journal of Building Performance Simulation, 2018, 11, 309-321.	2.0	40
698	The reliability of inverse modelling for the wide scale characterization of the thermal properties of buildings. Journal of Building Performance Simulation, 2018, 11, 65-83.	2.0	8

#	Article	IF	Citations
699	A Method toward Real-Time CFD Modeling for Natural Ventilation. Fluids, 2018, 3, 101.	1.7	14
700	Simulation Tools to Build Urban-Scale Energy Models: A Review. Energies, 2018, 11, 3269.	3.1	71
701	Temperature and Power Aware Server Placement Optimization for Enterprise Data Center. , 2018, , .		3
702	Multi-Objective Control of Air Conditioning Improves Cost, Comfort and System Energy Balance. Energies, 2018, 11, 2373.	3.1	10
703	Simulation-Based Evaluation and Optimization of Control Strategies in Buildings. Energies, 2018, 11, 3376.	3.1	27
704	Exergy As a Measure of Sustainable Retrofitting of Buildings. Energies, 2018, 11, 3139.	3.1	8
705	Preparation and Numerical Modelling of Ceramic Foam Insulation for Energy Saving in Buildings. , 0, , .		0
706	Simulation of heating loads and heat pump loads of a typical suburban residential building of Beijing, China in wintertime. Energy Procedia, 2018, 152, 348-353.	1.8	3
707	Research and Application of Distributed Energy Integration Optimization for Sino-German Building in the Cold Area of China. IFAC-PapersOnLine, 2018, 51, 90-95.	0.9	3
708	Comparative Evaluation of Threshold Modelling for Smart Buildings' Performance Testing. , 2018, , .		2
710	Automating occupant-building interaction via smart zoning of thermostatic loads: A switched self-tuning approach. Applied Energy, 2018, 231, 1246-1258.	10.1	79
711	Design framework for variable refrigerant flow systems with enhancement of interoperability between BIM and energy simulation. Journal of Mechanical Science and Technology, 2018, 32, 6009-6019.	1.5	9
712	Towards a Design Studio for Collaborative Modeling and Co-Simulations of Mixed Electrical Energy Systems. , 2018, , .		4
713	Development of a Building Information Modeling-Parametric Workflow Based Renovation Strategy for an Exemplary Apartment Building in Seoul, Korea. Sustainability, 2018, 10, 4494.	3.2	17
714	Reinforcement Learning Testbed for Power-Consumption Optimization. Communications in Computer and Information Science, 2018, , 45-59.	0.5	24
715	Profiling Occupancy Patterns to Calibrate Urban Building Energy Models (UBEMs) Using Measured Data Clustering. Technology Architecture and Design, 2018, 2, 206-217.	0.2	5
716	Machine learning for estimation of building energy consumption and performance: a review. Visualization in Engineering, 2018, 6, .	8.8	238
717	Battery life-cycle optimization and runtime control for commercial buildings demand side management: A New York City case study. Energy, 2018, 165, 782-791.	8.8	9

#	Article	IF	CITATIONS
718	Refugee housing through cyclic design. Architectural Science Review, 2018, 61, 327-337.	2.2	16
719	Model predictive control strategy applied to different types of building for space heating. Applied Energy, 2018, 231, 959-971.	10.1	57
720	Indoor Air-Temperature Forecast for Energy-Efficient Management in Smart Buildings. , 2018, , .		7
721	Determination of a Building's balance point temperature as an energy characteristic. Energy, 2018, 165, 1034-1049.	8.8	28
722	A generalized model of human body radiative heat exchanges for optimal design of indoor thermal comfort conditions. Solar Energy, 2018, 176, 556-571.	6.1	14
723	Design Automation for Smart Building Systems. Proceedings of the IEEE, 2018, 106, 1680-1699.	21.3	52
724	Integrated Framework to Manage Building's Sustainability Efficiency, Design Features and Building Envelope. IFIP Advances in Information and Communication Technology, 2018, , 650-660.	0.7	1
725	Direct and indirect effects of high-albedo roofs on energy consumption and thermal comfort of residential buildings. Energy and Buildings, 2018, 178, 71-83.	6.7	52
726	Integrating hourly life-cycle energy and carbon emissions of energy supply in buildings. Sustainable Cities and Society, 2018, 43, 305-316.	10.4	22
727	Smart home air filtering system: A randomized controlled trial for performance evaluation. Smart Health, 2018, 9-10, 62-75.	3.2	7
728	Correlation of Building Parameters with Energy Reduction. , 2018, , .		3
729	A quick auto-calibration approach based on normative energy models. Energy and Buildings, 2018, 172, 35-46.	6.7	24
730	Impacts of urbanization and air pollution on building energy demands — Beijing case study. Applied Energy, 2018, 225, 98-109.	10.1	74
732	Hybrid Probabilistic–Possibilistic Treatment of Uncertainty in Building Energy Models: A Case Study of Sizing Peak Cooling Loads. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering, 2018, 4, .	1.1	2
733	A novel approach for estimating residential space heating demand. Energy, 2018, 159, 294-301.	8.8	46
734	Parametric analysis of external and internal factors influence on building energy performance using non-linear multivariate regression models. Journal of Building Engineering, 2018, 20, 327-336.	3.4	42
735	Computational modeling of natural ventilation in low-rise non-rectangular floor-plan buildings. Building Simulation, 2018, 11, 1255-1271.	5.6	10
736	The Impact of Iwan as a Traditional Shading Device on the Building Energy Consumption. Buildings, 2018, 8, 3.	3.1	6

#	Article	IF	CITATIONS
737	Development of Easily Accessible Electricity Consumption Model Using Open Data and GA-SVR. Energies, 2018, 11, 373.	3.1	9
738	Phase Change Material (PCM) Application in a Modernized Korean Traditional House (Hanok). Sustainability, 2018, 10, 948.	3.2	10
739	Target Air Change Rate and Natural Ventilation Potential Maps for Assisting with Natural Ventilation Design During Early Design Stage in China. Sustainability, 2018, 10, 1448.	3.2	8
740	Thermal-Sensor-Based Occupancy Detection for Smart Buildings Using Machine-Learning Methods. ACM Transactions on Design Automation of Electronic Systems, 2018, 23, 1-21.	2.6	29
741	Sensitivity analysis of design parameters and optimal design for zero/low energy buildings in subtropical regions. Applied Energy, 2018, 228, 1280-1291.	10.1	104
742	Clustering and statistical analyses of air-conditioning intensity and use patterns in residential buildings. Energy and Buildings, 2018, 174, 214-227.	6.7	85
743	Energy Saving Recommendations and User Location Modeling in Commercial Buildings. , 2018, , .		17
744	Building occupancy modeling using generative adversarial network. Energy and Buildings, 2018, 174, 372-379.	6.7	37
745	Enabling Self-aware Smart Buildings by Augmented Reality. , 2018, , .		3
746	Effect of fenestration geometrical factors on building energy consumption and performance evaluation of a new external solar shading device in warm and humid climatic condition. Solar Energy, 2018, 169, 94-104.	6.1	44
747	Synergizing disparate component-level energy resources into a single whole building tool to support energy conservation action in small commercial buildings. Energy and Buildings, 2018, 176, 325-332.	6.7	4
748	Generation of composite load protection profiles for reliable system operation. , 2018, , .		3
749	Temporal variations in the primary energy use and greenhouse gas emissions of electricity provided by the Swiss grid. Energy, 2018, 161, 573-582.	8.8	50
750	Energy efficiency vs resiliency to extreme heat and power outages: The role of evolving building energy codes. Building and Environment, 2018, 139, 86-94.	6.9	45
751	Towards smart buildings performance testing as a service. , 2018, , .		8
752	Assessing overall building energy performance of a large population of residential single-family homes using limited field data. Journal of Building Performance Simulation, 2019, 12, 480-493.	2.0	10
753	Economic and environmental assessment of a solar-assisted ground source heat pump system in a heating-dominated climate. International Journal of Environmental Science and Technology, 2019, 16, 3091-3098.	3.5	18
754	Robust optimal design of zero/low energy buildings considering uncertainties and the impacts of objective functions. Applied Energy, 2019, 254, 113683.	10.1	18

#	Article	IF	CITATIONS
755	Analysis and comparison of two vegetative roof heat and mass transfer models in three different climates. Energy and Buildings, 2019, 202, 109367.	6.7	7
756	Planning for sustainable cities by estimating building occupancy with mobile phones. Nature Communications, 2019, 10, 3736.	12.8	56
757	A study on the efficiency of integrating phase change materials in the roof structure of residential buildings in Tunisia. , 2019, , .		0
758	Characterization, testing, and optimization of load aggregation methods for ground heat exchanger response-factor models. Science and Technology for the Built Environment, 2019, 25, 1036-1051.	1.7	6
759	Investigation on the performance of the chilled water system with the key sensor fault. IOP Conference Series: Earth and Environmental Science, 2019, 238, 012011.	0.3	1
760	Application of a staged automated calibration methodology to a partially-retrofitted university building energy model. Journal of Building Engineering, 2019, 26, 100866.	3.4	12
761	The impact of urban design elements on microclimate in hot arid climatic conditions: Al Ain City, UAE. Energy and Buildings, 2019, 200, 86-103.	6.7	33
762	Coupled heat and mass transfer in biosourced porous media without local equilibrium: A macroscopic formulation tailored to computational simulation. International Journal of Heat and Mass Transfer, 2019, 140, 717-730.	4.8	14
763	Framework for Balancing Structural Efficiency and Operational Energy in Tall Buildings. Journal of Architectural Engineering, 2019, 25, .	1.6	4
764	Modeling the performance of a sorption thermal energy storage reactor using artificial neural networks. Applied Energy, 2019, 253, 113525.	10.1	26
765	Investigations of climate change impacts on net-zero energy building lifecycle performance in typical Chinese climate regions. Energy, 2019, 185, 176-189.	8.8	37
766	Effects of natural soiling and weathering on cool roof energy savings for dormitory buildings in Chinese cities with hot summers. Solar Energy Materials and Solar Cells, 2019, 200, 110016.	6.2	26
767	Assessment of recycled ceramic-based inorganic insulation for improving energy efficiency and flame retardancy of buildings. Environment International, 2019, 130, 104900.	10.0	20
768	Estimation of the vertical borehole thermal parameters based on the evolution algorithm using temperature response functions. Estonian Journal of Earth Sciences, 2019, 68, 15.	1.1	2
769	A multi-sectoral approach to modelling community energy demand of the built environment. Energy Policy, 2019, 132, 865-875.	8.8	19
770	Open Computing Infrastructure for Sharing Data Analytics to Support Building Energy Simulations. Journal of Computing in Civil Engineering, 2019, 33, 04019037.	4.7	8
771	A procedural technique for thermal simulation and visualization in urban environments. Building Simulation, 2019, 12, 1013-1031.	5.6	2
772	The growing threat of heat disasters. Environmental Research Letters, 2019, 14, 054006.	5.2	40

#	Article	IF	CITATIONS
773	Validation on aggregate flexibility from residential air conditioning systems for building-to-grid integration. Energy and Buildings, 2019, 200, 58-67.	6.7	23
774	Indoor Thermal Comfort Improvement through the Integrated BIM-Parametric Workflow-Based Sustainable Renovation of an Exemplary Apartment in Seoul, Korea. Sustainability, 2019, 11, 3950.	3.2	8
775	A thermal network model for the dynamic simulation of the energy performance of buildings with the time varying ventilation flow. Energy and Buildings, 2019, 202, 109337.	6.7	22
776	A holistic design approach for residential net-zero energy buildings: A case study in Singapore. Sustainable Cities and Society, 2019, 50, 101672.	10.4	49
777	A meta-model-based optimization approach for fast and reliable calibration of building energy models. Energy, 2019, 188, 116046.	8.8	39
778	ANN Based Optimized AHU Discharge Air Temperature Control of Conventional VAV System for Minimized Cooling Energy in an Office Building. E3S Web of Conferences, 2019, 111, 05014.	0.5	0
779	Cool Roof Impact on Building Energy Need: The Role of Thermal Insulation with Varying Climate Conditions. Energies, 2019, 12, 3354.	3.1	24
780	Multi-criteria and multiscale assessment of building envelope response-ability to rising heat waves. Sustainable Cities and Society, 2019, 51, 101755.	10.4	14
781	How building energy models take the local climate into account in an urban context – A review. Renewable and Sustainable Energy Reviews, 2019, 116, 109390.	16.4	64
782	Combining Performance Testing and Metadata Models to Support Fault Detection and Diagnostics in Smart Buildings. Applied System Innovation, 2019, 2, 28.	4.6	0
783	A Non-Linear Autoregressive Model for Indoor Air-Temperature Predictions in Smart Buildings. Electronics (Switzerland), 2019, 8, 979.	3.1	26
784	Predicting Heating and Cooling Loads in Energy-Efficient Buildings Using Two Hybrid Intelligent Models. Applied Sciences (Switzerland), 2019, 9, 3543.	2.5	41
785	Towards climate robust buildings: An innovative method for designing buildings with robust energy performance under climate change. Energy and Buildings, 2019, 202, 109378.	6.7	34
786	Passive survivability of buildings under changing urban climates across eight US cities. Environmental Research Letters, 2019, 14, 074028.	5.2	33
787	OptEEmAL: Decision-Support Tool for the Design of Energy Retrofitting Projects at District Level. IOP Conference Series: Earth and Environmental Science, 2019, 290, 012129.	0.3	3
788	Review on greenhouse microclimate and application: Design parameters, thermal modeling and simulation, climate controlling technologies. Solar Energy, 2019, 191, 109-137.	6.1	142
789	LEAF: Live Building Performance Evaluation Framework. , 2019, , .		3
790	A Low-Complexity Framework for Distributed Energy Market Targeting Smart-Grid 2019		3

#	Article	IF	Citations
 791	Role of immersive visualization tools in renewable energy system development. Renewable and Sustainable Energy Reviews, 2019, 115, 109363.	16.4	10
792	Comprehensive preference learning and feature validity for designing energy-efficient residential buildings using machine learning paradigms. Applied Soft Computing Journal, 2019, 84, 105748.	7.2	73
793	Urban heat and air pollution: A framework for integrating population vulnerability and indoor exposure in health risk analyses. Science of the Total Environment, 2019, 660, 715-723.	8.0	72
794	Energy Value Analysis (EVA) of an Office Building: Case Study. , 2019, , .		1
795	A novel methodology for designing a multi-ejector refrigeration system. Applied Thermal Engineering, 2019, 151, 26-37.	6.0	27
796	Model Predictive Control Optimization via Genetic Algorithm Using a Detailed Building Energy Model. Energies, 2019, 12, 34.	3.1	45
797	Building information modelling based building energy modelling: A review. Applied Energy, 2019, 238, 320-343.	10.1	199
798	Data-driven online learning and reachability analysis of stochastic hybrid systems for smart buildings. Cyber-Physical Systems, 2019, 5, 41-64.	2.0	5
799	A comprehensive review of energy-related data for U.S. commercial buildings. Energy and Buildings, 2019, 186, 126-137.	6.7	38
800	Comparative analysis of the PCM application according to the building type as retrofit system. Building and Environment, 2019, 151, 291-302.	6.9	52
801	Latent heat storage biocomposites of phase change material-biochar as feasible eco-friendly building materials. Environmental Research, 2019, 172, 637-648.	7.5	76
802	Climate Data to Undertake Hygrothermal and Whole Building Simulations Under Projected Climate Change Influences for 11 Canadian Cities. Data, 2019, 4, 72.	2.3	47
803	Effectiveness of Automatic and Manual Calibration of an Office Building Energy Model. Applied Sciences (Switzerland), 2019, 9, 1985.	2.5	15
804	A method to evaluate glare risk from operable fenestration systems throughout a year. Building and Environment, 2019, 160, 106213.	6.9	6
805	Assessment of occupant-behavior-based indoor air quality and its impacts on human exposure risk: A case study based on the wildfires in Northern California. Science of the Total Environment, 2019, 686, 1251-1261.	8.0	28
806	An inverse approach to solving zone air infiltration rate and people count using indoor environmental sensor data. Energy and Buildings, 2019, 198, 228-242.	6.7	25
807	Fenestration refurbishment of an educational building: Experimental and numerical evaluation of daylight, thermal and building energy performance. Journal of Building Engineering, 2019, 25, 100803.	3.4	9
808	Effectiveness of phase change materials for improving the resiliency of residential buildings to extreme thermal conditions. Solar Energy, 2019, 188, 190-199.	6.1	22

#	Article	IF	CITATIONS
809	Methodology for the Quantification of the Impact of Weather Forecasts in Predictive Simulation Models. Energies, 2019, 12, 1309.	3.1	23
810	Analysis of the Influence Subjective Human Parameters in the Calculation of Thermal Comfort and Energy Consumption of Buildings. Energies, 2019, 12, 1531.	3.1	6
811	A review of modelling and optimisation techniques for district heating systems. International Journal of Energy Research, 2019, 43, 6572.	4.5	13
812	Surrogate modelling for sustainable building design – A review. Energy and Buildings, 2019, 198, 170-186.	6.7	129
813	Predicting the Impact of Climate Change on Thermal Comfort in A Building Category: The Case of Linear-type Social Housing Stock in Southern Spain. Energies, 2019, 12, 2238.	3.1	24
814	Occupant behavior long-term continuous monitoring integrated to prediction models: Impact on office building energy performance. Energy, 2019, 176, 667-681.	8.8	51
815	Stochastic optimized chiller operation strategy based on multi-objective optimization considering measurement uncertainty. Energy and Buildings, 2019, 195, 149-160.	6.7	19
816	Coupling a Building Energy Simulation Tool with a Microclimate Model to Assess the Impact of cool Pavements on the Building's Energy Performance. Application in a Dense Residential Area. Sustainability, 2019, 11, 2519.	3.2	15
817	Integrated BIM-Parametric Workflow-Based Analysis of Daylight Improvement for Sustainable Renovation of an Exemplary Apartment in Seoul, Korea. Sustainability, 2019, 11, 2699.	3.2	14
818	Impact of Building Design Parameters on Daylighting Metrics Using an Analysis, Prediction, and Optimization Approach Based on Statistical Learning Technique. Sustainability, 2019, 11, 1474.	3.2	27
819	A methodology to improve the performance of PV integrated shading devices using multi-objective optimization. Applied Energy, 2019, 247, 731-744.	10.1	78
820	Modeling the effect of climate change on building energy demand in Los Angeles county by using a GIS-based high spatial- and temporal-resolution approach. Energy, 2019, 176, 641-655.	8.8	28
821	Comparing the impact of presence patterns on energy demand in residential buildings using measured data and simulation models. Building Simulation, 2019, 12, 985-998.	5.6	23
822	Vector field-based support vector regression for building energy consumption prediction. Applied Energy, 2019, 242, 403-414.	10.1	233
823	Energy optimization associated with thermal comfort and indoor air control via a deep reinforcement learning algorithm. Building and Environment, 2019, 155, 105-117.	6.9	112
824	Development of a user-friendly regression model to evaluate carbon emissions of office buildings design in the subtropics. Facilities, 2019, 37, 860-878.	1.6	3
825	Assessment of the Potential of High-Performance Buildings to Achieve Zero Energy: A Case Study. Applied Sciences (Switzerland), 2019, 9, 775.	2.5	5
826	Automated design and modeling for mass-customized housing. A web-based design space catalog for timber structures. Automation in Construction, 2019, 103, 13-25.	9.8	57

#	Article	IF	CITATIONS
827	Rethinking HVAC temperature setpoints in commercial buildings: The potential for zero-cost energy savings and comfort improvement in different climates. Building and Environment, 2019, 155, 350-359.	6.9	103
828	A transfer operator methodology for optimal sensor placement accounting for uncertainty. Building and Environment, 2019, 155, 334-349.	6.9	17
829	Application of artificial neural networks for optimized AHU discharge air temperature set-point and minimized cooling energy in VAV system. Applied Thermal Engineering, 2019, 153, 726-738.	6.0	47
830	New method for the early design of BIPV with electric storage: A case study in northern Italy. Sustainable Cities and Society, 2019, 48, 101400.	10.4	38
831	A multi-scale calibration approach for process-oriented aggregated building energy demand models. Energy and Buildings, 2019, 191, 82-94.	6.7	10
832	Energy system optimization at the municipal level: An analysis of modeling approaches and challenges. Renewable and Sustainable Energy Reviews, 2019, 105, 444-461.	16.4	39
833	A novel efficient optimization algorithm for parameter estimation of building thermal dynamic models. Building and Environment, 2019, 153, 233-240.	6.9	20
834	ANN based automatic slat angle control of venetian blind for minimized total load in an office building. Solar Energy, 2019, 180, 133-145.	6.1	40
835	Impacts of future weather data typology on building energy performance – Investigating long-term patterns of climate change and extreme weather conditions. Applied Energy, 2019, 238, 696-720.	10.1	184
836	Measured and modeled performance of internal mass as a thermal energy battery for energy flexible residential buildings. Applied Energy, 2019, 239, 252-267.	10.1	43
837	Urban Climate in the South American Coastal Cities of Guayaquil, Lima, Antofagasta, and ValparaÃso, and Its Impacts on the Energy Efficiency of Buildings. , 2019, , 33-62.		3
838	Building Energy and IAQ improvement by Coupled Model. IOP Conference Series: Materials Science and Engineering, 2019, 609, 042102.	0.6	2
839	Tolerance Evaluation of Typical Building Energy Systems with Imprecise Load Prediction. , 2019, , .		0
840	Overall Energy Performance Assessment of a New Heat Blocking Coating. Journal of Sustainable Development of Energy, Water and Environment Systems, 2019, 7, 1-12.	1.9	3
841	Sustainability Assessment and ENVISION Rating of Lightweight Masonry Walls in Conventional Buildings. , 2019, , .		5
842	Heritage retrofit and cultural empathy; a discussion of challenges regarding the energy performance of historic UK timber-framed dwellings. International Journal of Building Pathology and Adaptation, 2019, 38, 386-404.	1.3	3
843	Smart Building Energy Management using Nonlinear Economic Model Predictive Control. , 2019, , .		16
844	A Mobility-Driven Approach to Modeling Building Energy. , 2019, , .		5

#	Article	IF	CITATIONS
845	A Model for Predicting Energy Usage Pattern Types with Energy Consumption Information According to the Behaviors of Single-Person Households in South Korea. Sustainability, 2019, 11, 245.	3.2	15
846	On Predicting the PUE with Gated Recurrent Unit in Data Centers. , 2019, , .		3
847	MPC-Based Building Climate Controller Incorporating Humidity. , 2019, , .		4
848	A Markov Process Approach to Ensemble Control of Smart Buildings. , 2019, , .		6
849	Comfort-oriented control strategies for decentralized ventilation using co-simulation. IOP Conference Series: Materials Science and Engineering, 2019, 609, 032018.	0.6	4
850	Metaheuristic optimization of daylighting and energy performances in office spaces. IOP Conference Series: Earth and Environmental Science, 2019, 397, 012009.	0.3	4
851	Complicacy-Guided Parameter Space Sampling for Knowledge Discovery with Limited Simulation Budgets. , 2019, , .		0
852	Energy Planning of Pigsty Using Digital Twin. , 2019, , .		13
853	Uncertainy's Indices Assessment for Calibrated Energy Models. Energies, 2019, 12, 2096.	3.1	24
854	Assessing the Energy and Indoor Air Quality Performance for a Three-Story Building Using an Integrated Model, Part One: The Need for Integration. Energies, 2019, 12, 4775.	3.1	17
855	Numerical Methods for Diffusion Phenomena in Building Physics. , 2019, , .		5
856	Solar façades for future cities. Renewable Energy Focus, 2019, 31, 73-79.	4.5	38
857	Diagnosis and Robust Control of Complex Building Central Chilling Systems for Enhanced Energy Performance. , 2019, , .		0
858	Detailed Comparison of the Operational Characteristics of Energy-Conserving HVAC Systems during the Cooling Season. Energies, 2019, 12, 4160.	3.1	10
859	Modeling and Simulation Performance Evaluation of a Proposed Calorimeter for Testing a Heat Pump System. Energies, 2019, 12, 4589.	3.1	1
860	Transitioning to low-carbon suburbs in hot-arid regions: A case-study of Emirati villas in Abu Dhabi. Building and Environment, 2019, 147, 77-96.	6.9	17
861	Street trees' management perspectives: Reuse of Tilia sp.'s pruning waste for insulation purposes. Urban Forestry and Urban Greening, 2019, 38, 177-182.	5.3	12
862	A systematic feature selection procedure for short-term data-driven building energy forecasting model development. Energy and Buildings, 2019, 183, 428-442.	6.7	90

#	ARTICLE A combined scientometric and conventional literature review to grasp the entire BIM knowledge and	IF 3.4	Citations
864	its integration with energy simulation. Journal of Building Engineering, 2019, 22, 513-527. Uncertainty assessment of building performance simulation. , 2019, , 257-287.		0
865	Steady-State and Dynamic Codes, Critical Review, Advantages and Disadvantages, Accuracy, and Reliability. , 2019, , 263-294.		6
866	IoT for Smart Grids. Power Systems, 2019, , .	0.5	16
867	Achieving natural ventilation potential in practice: Control schemes and levels of automation. Applied Energy, 2019, 235, 1141-1152.	10.1	71
868	Impact of outdoor air quality on the natural ventilation usage of commercial buildings in the US. Applied Energy, 2019, 235, 673-684.	10.1	65
869	Consistently Oriented Dart-based 3D Modelling by Means of Geometric Algebra and Combinatorial Maps. Advances in Applied Clifford Algebras, 2019, 29, 1.	1.0	0
870	On the importance of heat and mass transfer coupling for the characterization of hygroscopic insulation materials. International Journal of Heat and Mass Transfer, 2019, 133, 968-975.	4.8	18
871	Evaluation of thermal and solar performance in atrium buildings using sequential simulation. Energy and Environment, 2019, 30, 969-990.	4.6	10
872	Optimization of window-to-wall ratio with sunshades in China low latitude region considering daylighting and energy saving requirements. Applied Energy, 2019, 233-234, 62-70.	10.1	86
873	The impact of building operations on urban heat/cool islands under urban densification: A comparison between naturally-ventilated and air-conditioned buildings. Applied Energy, 2019, 235, 129-138.	10.1	34
874	Semantics for assembling modular components in a scalable building performance simulation. Journal of Building Performance Simulation, 2019, 12, 145-159.	2.0	6
875	Sensitivity of electricity consumption to air temperature, air humidity and solar radiation at the city-block scale in Osaka, Japan. Sustainable Cities and Society, 2019, 45, 38-47.	10.4	13
876	Towards Plug&Play Smart Thermostats for Building's Heating/Cooling Control. Power Systems, 2019, , 183-207.	0.5	0
877	Linking energy-cyber-physical systems with occupancy prediction and interpretation through WiFi probe-based ensemble classification. Applied Energy, 2019, 236, 55-69.	10.1	85
878	Sequential state prediction and parameter estimation with constrained dual extended Kalman filter for building zone thermal responses. Energy and Buildings, 2019, 183, 538-546.	6.7	17
879	Ineffectiveness of optimization algorithms in building energy optimization and possible causes. Renewable Energy, 2019, 134, 1295-1306.	8.9	28
880	A multivariate regression to predict daylighting and energy consumption of residential buildings within hybrid settlements in hot-desert climates. Indoor and Built Environment, 2019, 28, 848-866.	2.8	19

#	Article	IF	CITATIONS
881	JOIN: an integrated platform for joint simulation of occupant-building interactions. Architectural Science Review, 2020, 63, 339-350.	2.2	7
882	Occupancy detection systems for indoor environments: A survey of approaches and methods. Indoor and Built Environment, 2020, 29, 1053-1069.	2.8	41
883	The impact of climate change on thermal climate zones and residential energy efficiency designs during the past decades in China. Advances in Building Energy Research, 2020, 14, 389-402.	2.3	3
884	Gradient boosting machine for predicting return temperature of district heating system: A case study for residential buildings in Tianjin. Journal of Building Engineering, 2020, 27, 100950.	3.4	36
885	Optimization of cool roof and night ventilation in office buildings: AÂcase study in Xiamen, China. Renewable Energy, 2020, 147, 2279-2294.	8.9	35
886	Effect of phase change material integration in clay hollow brick composite in building envelope for thermal management of energy efficient buildings. Journal of Building Physics, 2020, 43, 351-364.	2.4	34
887	On the comparison of three numerical methods applied to building simulation: Finite-differences, RC circuit approximation and a spectral method. Building Simulation, 2020, 13, 1-18.	5.6	12
888	Transforming Cooling Optimization for Green Data Center via Deep Reinforcement Learning. IEEE Transactions on Cybernetics, 2020, 50, 2002-2013.	9.5	105
889	Effectively modeling surface temperature and evaluating mean radiant temperature in tropical outdoor industrial environments. Building and Environment, 2020, 169, 106277.	6.9	6
890	Thermal energy performance of an academic building with sustainable probing and optimization with evolutionary algorithm. Thermal Science and Engineering Progress, 2020, 17, 100374.	2.7	11
891	Rapid Prototyping of Low-Complexity Orchestrator Targeting CyberPhysical Systems: The Smart-Thermostat Usecase. IEEE Transactions on Control Systems Technology, 2020, 28, 1831-1845.	5.2	7
892	An IoT-Based Thermal Model Learning Framework for Smart Buildings. IEEE Internet of Things Journal, 2020, 7, 518-527.	8.7	74
893	Quantification methods of natural ventilated building performance in preliminary design. Building Research and Information, 2020, 48, 401-414.	3.9	2
894	Prediction of Wind-Induced Mean Pressure Coefficients Using GMDH Neural Network. Journal of Aerospace Engineering, 2020, 33, .	1.4	13
895	Sequential Model-Based Optimization for Continuous Inputs with Finite Decision Space. Technometrics, 2020, 62, 486-498.	1.9	2
896	Data-Driven Load Modeling and Forecasting of Residential Appliances. IEEE Transactions on Smart Grid, 2020, 11, 2652-2661.	9.0	35
897	A Hybrid Short-Term Building Electrical Load Forecasting Model Combining the Periodic Pattern, Fuzzy System, and Wavelet Transform. International Journal of Fuzzy Systems, 2020, 22, 156-171.	4.0	34
898	Assessing the energy and indoor-PM2.5-exposure impacts of control strategies for residential energy recovery ventilators. Journal of Building Engineering, 2020, 29, 101137.	3.4	10

#	Article	IF	CITATIONS
899	Framework for developing a building material property database using web crawling to improve the applicability of energy simulation tools. Renewable and Sustainable Energy Reviews, 2020, 121, 109665.	16.4	6
900	Understanding the performance gap in energy retrofitting: Measured input data for adjusting building simulation models. Energy and Buildings, 2020, 209, 109688.	6.7	61
901	A systematic review of genetic algorithm-based multi-objective optimisation for building retrofitting strategies towards energy efficiency. Energy and Buildings, 2020, 210, 109690.	6.7	99
902	Transfer learning with deep neural networks for model predictive control of HVAC and natural ventilation in smart buildings. Journal of Cleaner Production, 2020, 254, 119866.	9.3	147
903	A novel approach to district heating and cooling network design based on life cycle cost optimization. Energy, 2020, 194, 116837.	8.8	29
904	Gene-expression programming for the assessment of surface mean pressure coefficient on building surfaces. Building Simulation, 2020, 13, 401-418.	5.6	14
905	Developing quantitative insights on building occupant behaviour: Supporting modelling tools and datasets. , 2020, , 283-319.		2
906	Framework for emulation and uncertainty quantification of a stochastic building performance simulator. Applied Energy, 2020, 258, 113759.	10.1	10
907	A catalogue of energy conservation measures (ECM) and a tool for their application in energy simulation models. Journal of Building Engineering, 2020, 29, 101102.	3.4	10
908	A feasibility assessment of single to multi/hybrid evaporative coolers for building air-conditioning across diverse climates in India. Applied Thermal Engineering, 2020, 168, 114813.	6.0	12
909	System-level key performance indicators for building performance evaluation. Energy and Buildings, 2020, 209, 109703.	6.7	36
910	Energy performance of next-generation dedicated outdoor air cooling systems in low-energy building operations. Energy and Buildings, 2020, 209, 109677.	6.7	23
911	A three-stage optimization methodology for envelope design of passive house considering energy demand, thermal comfort and cost. Energy, 2020, 192, 116723.	8.8	60
912	The uncertainty of manual shade control on west-facing facades and its influence on energy performance. Applied Thermal Engineering, 2020, 165, 114611.	6.0	4
913	Prediction of building indoor temperature response in variable air volume systems. Journal of Building Performance Simulation, 2020, 13, 34-47.	2.0	18
914	Usage of solar shading devices to improve the thermal comfort in summer in a Romanian PassivHaus. Simulation, 2020, 96, 471-486.	1.8	8
915	Multi-objective simulation-based optimization of controlled blind specifications to reduce energy consumption, and thermal and visual discomfort: Case studies in Iran. Building and Environment, 2020, 169, 106570.	6.9	53
916	Urban Building Energy and Climate (UrBEC) simulation: Example application and field evaluation in Sai Ying Pun, Hong Kong. Energy and Buildings, 2020, 207, 109580.	6.7	29

#	Article	IF	CITATIONS
917	Smart energy for smart built environment: A review for combined objectives of affordable sustainable green. Sustainable Cities and Society, 2020, 53, 101954.	10.4	15
918	The Energy Performance and Techno-Economic Analysis of Zero Energy Bill Homes. Energy and Buildings, 2020, 228, 110426.	6.7	3
919	All you need to know about model predictive control for buildings. Annual Reviews in Control, 2020, 50, 190-232.	7.9	340
920	Building Energy Renovation and Smart Integration of Renewables in a Social Housing Block Toward Nearly-Zero Energy Status. Frontiers in Energy Research, 2020, 8, .	2.3	5
921	Combining bioclimatic strategies with efficient HVAC plants to reach nearly-zero energy building goals in Mediterranean climate. Sustainable Cities and Society, 2020, 63, 102479.	10.4	21
922	Impacts of the morphology of new neighborhoods on microclimate and building energy. Renewable and Sustainable Energy Reviews, 2020, 133, 110030.	16.4	13
923	Reinforcement learning for whole-building HVAC control and demand response. Energy and AI, 2020, 2, 100020.	10.6	110
924	Indicative appraisal of clustered micro-generators for a low-carbon transition in the UK building sector. Clobal Transitions, 2020, 2, 83-97.	4.1	4
925	Automated modelling of residential buildings and heating systems based on smart grid monitoring data. Energy and Buildings, 2020, 229, 110453.	6.7	8
926	Influence of sunspace on energy consumption of rural residential buildings. Solar Energy, 2020, 211, 336-344.	6.1	37
927	Model predictive control for energy-efficient HVAC operation with humidity and latent heat considerations. Applied Energy, 2020, 279, 115765.	10.1	28
928	Machine learning modelling for predicting non-domestic buildings energy performance: A model to support deep energy retrofit decision-making. Applied Energy, 2020, 279, 115908.	10.1	94
929	A multi-objective optimization approach for climate-adaptive building envelope design using parametric behavior maps. Building and Environment, 2020, 185, 107292.	6.9	47
930	Risk-informed multi-criteria decision framework for resilience, sustainability and energy analysis of reinforced concrete buildings. Journal of Building Performance Simulation, 2020, 13, 804-823.	2.0	22
931	Multi-Objective Analysis of a Fixed Solar Shading System in Different Climatic Areas. Energies, 2020, 13, 3249.	3.1	17
932	Non-intrusive cooling tower model validation: Results from a case study. Science and Technology for the Built Environment, 2020, 26, 1204-1215.	1.7	0
933	Evaluation of the dynamic energy performance gap of green buildings: Case studies in China. Building Simulation, 2020, 13, 1191-1204.	5.6	16
934	Bibliographic analysis of the recent advancements in modeling and co-simulating the fifth-generation district heating and cooling systems. Energy and Buildings, 2020, 224, 110260.	6.7	37

#	Article	IF	CITATIONS
935	An open source analysis framework for large-scale building energy modeling. Journal of Building Performance Simulation, 2020, 13, 487-500.	2.0	7
936	EnergyStar++: Towards more accurate and explanatory building energy benchmarking. Applied Energy, 2020, 276, 115413.	10.1	83
937	Development and Application of a Flexible Modeling Approach to Reference Buildings for Energy Analysis. Energies, 2020, 13, 5815.	3.1	3
938	Analysis and Comparison of Energy Efficiency Code Requirements for Buildings: A Morocco–Spain Case Study. Energies, 2020, 13, 5979.	3.1	21
939	Impact of Global Warming in Subtropical Climate Buildings: Future Trends and Mitigation Strategies. Energies, 2020, 13, 6188.	3.1	9
940	Probabilistic Load Forecasting for Building Energy Models. Sensors, 2020, 20, 6525.	3.8	14
941	Simulation and Measurement of Energetic Performance in Decentralized Regenerative Ventilation Systems. Energies, 2020, 13, 6010.	3.1	4
942	Sustainable framework for buildings in cold regions of China considering life cycle cost and environmental impact as well as thermal comfort. Energy Reports, 2020, 6, 3036-3050.	5.1	17
943	Driving Data into Energy-Efficient Buildings. Joule, 2020, 4, 2256-2258.	24.0	6
944	Economic evaluation of a hybrid heating system in different climate zones based on model predictive control. Energy Conversion and Management, 2020, 221, 113205.	9.2	11
945	Generative adversarial network for fault detection diagnosis of chillers. Building and Environment, 2020, 172, 106698.	6.9	107
946	Leveraging Fine-Grained Occupancy Estimation Patterns for Effective HVAC Control. , 2020, , .		2
947	Analysis of health impact assessment to outdoor and indoor air pollution in a prototype building in Madrid (Spain). IOP Conference Series: Earth and Environmental Science, 0, 489, 012010.	0.3	1
948	Evaluating Building Energy Code Compliance and Savings Potential through Large-Scale Simulation with Models Inferred by Field Data. Energies, 2020, 13, 2321.	3.1	5
949	Reinforcement Learning for Control of Building HVAC Systems. , 2020, , .		19
950	Optimal control of natural ventilation as passive cooling strategy for improving the energy performance of building envelope with PCM integration. Renewable Energy, 2020, 162, 171-181.	8.9	84
951	Integrated Building and Systems: Modelling and Simulation. , 2020, , .		0
952	Estimating the standardized regression coefficients of design variables in daylighting and energy performance of buildings in the face of multicollinearity. Solar Energy, 2020, 211, 1184-1193.	6.1	16

#	Article	IF	CITATIONS
953	A Case Study for Solar PV Powered Cooling System in Lagos, Nigeria. , 2020, , .		0
954	Fault detection in ventilation units using dynamic energy performance models. Journal of Building Engineering, 2020, 32, 101635.	3.4	6
955	Energy and economic assessment of distributed renewable gas and electricity generation in a small disadvantaged urban community. Applied Energy, 2020, 280, 115974.	10.1	7
956	Estimating residential building energy consumption using overhead imagery. Applied Energy, 2020, 280, 116018.	10.1	43
957	A data-driven approach for multi-scale GIS-based building energy modeling for analysis, planning and support decision making. Applied Energy, 2020, 279, 115834.	10.1	72
958	An improved method for direct incident solar radiation calculation from hourly solar insolation data in building energy simulation. Energy and Buildings, 2020, 227, 110425.	6.7	17
959	An Enhanced Vertical Ground Heat Exchanger Model for Whole-Building Energy Simulation. Energies, 2020, 13, 4058.	3.1	7
960	Development of Spatial Distribution Maps for Energy Demand and Thermal Comfort Estimation in Algeria. Sustainability, 2020, 12, 6066.	3.2	11
961	Fast Adaptation of Thermal Dynamics Model for Predictive Control of HVAC and Natural Ventilation Using Transfer Learning with Deep Neural Networks. , 2020, , .		5
962	Transfer Learning for HVAC System Fault Detection. , 2020, , .		4
963	Simulative study of a novel fuzzy demand controlled ventilation for façade-integrated decentralized systems in renovated residential buildings. Science and Technology for the Built Environment, 2020, 26, 1412-1426.	1.7	3
964	Human-centric green building design: the energy saving potential of occupants' behaviour enhancement in the office environment. Journal of Building Performance Simulation, 2020, 13, 621-644.	2.0	21
965	Reviewing the Modeling Aspects and Practices of Shallow Geothermal Energy Systems. Energies, 2020, 13, 4273.	3.1	11
966	Reinforcement Learning-Based School Energy Management System. Energies, 2020, 13, 6354.	3.1	11
967	Employ 6D-BIM Model Features for Buildings Sustainability Assessment. IOP Conference Series: Materials Science and Engineering, 2020, 901, 012021.	0.6	5
968	Prediction of Building's Thermal Performance Using LSTM and MLP Neural Networks. Applied Sciences (Switzerland), 2020, 10, 7439.	2.5	24
969	Simulating the Lighting Electricity Consumption of Hotel Building: A Case from China. , 2020, , .		0
970	CarnegiePLUG: Prosumer-in-the-Loop simUlation Grid. , 2020, , .		2

#	ARTICLE	IF	CITATIONS
971	Neural Methods Comparison for Prediction of Heating Energy Based on Few Hundreds Enhanced Buildings in Four Season's Climate. Energies, 2020, 13, 5453.	3.1	19
972	Air-Handling-Unit Discharge Air Temperature Reset Based on Outdoor Air Temperature and Cooling Energy Performance in an Office Building. Journal of Energy Engineering - ASCE, 2020, 146, .	1.9	10
973	Predicting the Output From a Stochastic Computer Model When a Deterministic Approximation is Available. Journal of Computational and Graphical Statistics, 2020, 29, 786-797.	1.7	3
974	Change of climate data over 37 years in Hong Kong and the implications on the simulation-based building energy evaluations. Energy and Buildings, 2020, 222, 110062.	6.7	16
975	Development of new baseline models for U.S. medium office buildings based on commercial buildings energy consumption survey data. Science and Technology for the Built Environment, 2020, 26, 1321-1336.	1.7	5
976	A novel method of building climate subdivision oriented by reducing building energy demand. Energy and Buildings, 2020, 216, 109999.	6.7	13
977	Study of thermal performance of air-source heat-pump heating for suburban residential buildings in Beijing. Science and Technology for the Built Environment, 2020, 26, 975-986.	1.7	3
978	Multienergy Networks Analytics: Standardized Modeling, Optimization, and Low Carbon Analysis. Proceedings of the IEEE, 2020, 108, 1411-1436.	21.3	68
979	Predicting Building Energy Consumption by Time Series Model Based on Machine Learning and Empirical Mode Decomposition. , 2020, , .		5
980	Implementing data-driven parametric building design with a flexible toolbox. Automation in Construction, 2020, 118, 103252.	9.8	54
981	Full-scale measurement and validated simulation of cooling load reduction due to nighttime natural ventilation of a large atrium. Energy and Buildings, 2020, 224, 110233.	6.7	35
982	Simulation and case study on residential stochastic energy use behaviors based on human dynamics. Energy and Buildings, 2020, 223, 110182.	6.7	18
983	Beyond energy savings: Investigating the co-benefits of heat resilient architecture. Energy, 2020, 204, 117886.	8.8	15
984	Identifying a suitable hourly solar diffuse fraction model to generate the typical meteorological year for building energy simulation application. Renewable Energy, 2020, 157, 1102-1115.	8.9	22
985	Housing as a critical determinant of heat vulnerability and health. Science of the Total Environment, 2020, 720, 137296.	8.0	32
986	A hierarchical multi-resolution agent-based modeling and simulation framework for household electricity demand profile. Simulation, 2020, 96, 655-678.	1.8	13
987	Promoting Energy Efficiency in the Built Environment through Adapted BIM Training and Education. Energies, 2020, 13, 2308.	3.1	21
988	Building control virtual test bed and functional mock-up interface standard: comparison in the context of campus energy modelling and control. Journal of Building Performance Simulation, 2020, 13, 456-471.	2.0	5

#	Article	IF	CITATIONS
989	An Integrated HBIM Simulation Approach for Energy Retrofit of Historical Buildings Implemented in a Case Study of a Medieval Fortress in Italy. Energies, 2020, 13, 2601.	3.1	38
990	Power Consumption Estimation for Building Air Conditioning Systems Using Recurrent Neural Network. , 2020, , .		0
991	ENERGY-CONSERVATION CONSIDERATIONS THROUGH A NOVEL INTEGRATION OF SUNSPACE AND SOLAR CHIMNEY IN THE TERRACED RURAL DWELLINGS. International Journal of Energy Economics and Policy, 2020, 10, 1-13.	1.2	2
992	Building Envelope Thermal Mass and Its Effect on Spring and the Autumn Seasonal Transition Period. Journal of Architectural Engineering, 2020, 26, .	1.6	2
993	Computational analysis of energy and cost efficient retrofitting measures for the French house. Building and Environment, 2020, 175, 106792.	6.9	10
994	A simulation study of decreased life expectancy from exposure to ambient particulate air pollution (PM2.5) in naturally ventilated workspaces. Journal of Building Engineering, 2020, 30, 101268.	3.4	9
995	Model predictive control applied to a heating system with PV panels and thermal energy storage. Energy, 2020, 197, 117229.	8.8	34
996	Multi-objective optimization design for windows and shading configuration considering energy consumption and thermal comfort: A case study for office building in different climatic regions of China. Solar Energy, 2020, 206, 997-1017.	6.1	97
997	Using Residential and Office Building Archetypes for Energy Efficiency Building Solutions in an Urban Scale: A China Case Study. Energies, 2020, 13, 3210.	3.1	24
998	Comparative Performance of Machine Learning Algorithms in the Prediction of Indoor Daylight Illuminances. Sustainability, 2020, 12, 4471.	3.2	20
999	The On-Site Energy Demand of Meats Consumed in Restaurants. Resources, Conservation and Recycling, 2020, 160, 104845.	10.8	1
1000	Comprehensive evaluation of energy and indoor-PM2.5-exposure performance of residential window and roller blind control strategies. Energy and Buildings, 2020, 223, 110206.	6.7	14
1001	A systematic and probabilistic approach for optimal design and on-site adaptive balancing of building central cooling systems concerning uncertainties. Science and Technology for the Built Environment, 2020, 26, 888-900.	1.7	0
1002	Determining the optimal set-point temperature considering both labor productivity and energy saving in an office building. Applied Energy, 2020, 276, 115429.	10.1	23
1003	Maximizing Solar Energy Utilization through Multicriteria Pareto Optimization of Energy Harvesting and Regulating Smart Windows. Cell Reports Physical Science, 2020, 1, 100108.	5.6	9
1004	An integrated model for quantifying the impacts of pavement albedo and urban morphology on building energy demand. Energy and Buildings, 2020, 211, 109759.	6.7	30
1005	Improvement of thermal inertia effect in buildings using shape stabilized PCM wallboard based on the enthalpy-temperature function. Sustainable Cities and Society, 2020, 56, 102067.	10.4	64
1006	Configuration Optimization Model for Data-Center-Park-Integrated Energy Systems under Economic, Reliability, and Environmental Considerations. Energies, 2020, 13, 448.	3.1	19

#	Article	IF	CITATIONS
1007	Building fault detection data to aid diagnostic algorithm creation and performance testing. Scientific Data, 2020, 7, 65.	5.3	51
1008	Plant factories: Reducing energy demand at high internal heat loads through façade design. Applied Energy, 2020, 262, 114544.	10.1	36
1009	Data-driven switching modeling for MPC using Regression Trees and Random Forests. Nonlinear Analysis: Hybrid Systems, 2020, 36, 100882.	3.5	33
1010	Design of a "Test Cell―to be located at 4500 masl in a high Andean region of Peru and dynamic simulation of the thermal performance of housing wall materials. Journal of Physics: Conference Series, 2020, 1433, 012002.	0.4	1
1011	A Deep-Reinforcement-Learning-Based Recommender System for Occupant-Driven Energy Optimization in Commercial Buildings. IEEE Internet of Things Journal, 2020, 7, 6402-6413.	8.7	47
1012	EplusLauncher: An API to Perform Complex EnergyPlus Simulations in MATLAB® and C#. Sustainability, 2020, 12, 672.	3.2	2
1013	Simulating a residential building stock to support regional efficiency policy. Applied Energy, 2020, 261, 114223.	10.1	8
1014	Energy use of subtropical high-rise public residential buildings and impacts of energy saving measures. Journal of Cleaner Production, 2020, 254, 120041.	9.3	36
1015	Photovoltaic Plant Optimization to Leverage Electric Self Consumption by Harnessing Building Thermal Mass. Sustainability, 2020, 12, 553.	3.2	14
1016	Office densification effects on comfort, energy, and carbon lifecycle performance: An integrated and exploratory study. Sustainable Cities and Society, 2020, 55, 102032.	10.4	7
1017	Building occupant transient agent-based model – Movement module. Applied Energy, 2020, 261, 114417.	10.1	15
1018	Employing artificial bee colony and particle swarm techniques for optimizing a neural network in prediction of heating and cooling loads of residential buildings. Journal of Cleaner Production, 2020, 254, 120082.	9.3	147
1019	Quantifying the impact of housing interventions on indoor air quality and energy consumption using coupled simulation models. Journal of Exposure Science and Environmental Epidemiology, 2020, 30, 436-447.	3.9	25
1020	IFC-Based BIM-to-BEM Model Transformation. Journal of Computing in Civil Engineering, 2020, 34, .	4.7	31
1021	Uncertainty of building energy performance at spatio-temporal scales: A comparison of aggregated and disaggregated behavior models of solar shade control. Energy, 2020, 195, 117079.	8.8	3
1022	Nexus of thermal resilience and energy efficiency in buildings: A case study of a nursing home. Building and Environment, 2020, 177, 106842.	6.9	40
1023	Model-free optimal chiller loading method based on Q-learning. Science and Technology for the Built Environment, 2020, 26, 1100-1116.	1.7	16
1024	Real-time spectral radiance estimation of hemispherical clear skies with machine learned regression models. Solar Energy, 2020, 204, 48-63.	6.1	7

#	Article	IF	CITATIONS
1025	Application of Rough Set Theory (RST) to Forecast Energy Consumption in Buildings Undergoing Thermal Modernization. Energies, 2020, 13, 1309.	3.1	14
1027	Verification of behavioural models of window opening: The accuracy of window-use pattern, indoor temperature and indoor PM2.5 concentration prediction. Building Simulation, 2020, 13, 527-542.	5.6	12
1028	Parametric behavior maps: A method for evaluating the energy performance of climate-adaptive building envelopes. Energy and Buildings, 2020, 219, 110020.	6.7	25
1029	How neighborhood form influences building energy use in winter design condition: Case study of Chicago using CFD coupled simulation. Journal of Cleaner Production, 2020, 261, 121094.	9.3	23
1030	Occupant-centered optimization framework to evaluate and design new dynamic shading typologies. PLoS ONE, 2020, 15, e0231554.	2.5	2
1031	Energy performance of earthen building walls in the equatorial and tropical climates: a case study of Cameroon. Energy Efficiency, 2020, 13, 735-750.	2.8	6
1032	A Hierarchical Approach to Multienergy Demand Response: From Electricity to Multienergy Applications. Proceedings of the IEEE, 2020, 108, 1457-1474.	21.3	22
1033	On the assessment and control optimisation of demand response programs in residential buildings. Renewable and Sustainable Energy Reviews, 2020, 127, 109861.	16.4	90
1034	Tilia sp.'s pruning residues wood panels for thermal insulation. , 2020, , 129-148.		1
1035	Study on Fuzzy Control for Air-To-Water Heat Pumps Connected to a Residential Floor Heating System. Mathematical Problems in Engineering, 2020, 2020, 1-11.	1.1	0
1036	Potential overall heat exposure reduction associated with implementation of heat mitigation strategies in Los Angeles. International Journal of Biometeorology, 2021, 65, 407-418.	3.0	8
1037	Natural ventilation usability under climate change in Canada and the United States. Building Research and Information, 2021, 49, 367-386.	3.9	14
1038	Autoregressive neural networks with exogenous variables for indoor temperature prediction in buildings. Building Simulation, 2021, 14, 165-178.	5.6	22
1039	Utilization of irradiance ratios for calculating the effect of reflections from obstructions in building energy simulation. Building Simulation, 2021, 14, 945-967.	5.6	1
1040	Simulation-based performance evaluation of model predictive control for building energy systems. Applied Energy, 2021, 281, 116027.	10.1	40
1041	Influence of building and indoor environmental parameters on designing energy-efficient buildings. International Journal of Building Pathology and Adaptation, 2021, 39, 507-524.	1.3	4
1042	An integrated approach to evaluate thermal comfort in air-conditioned large-space office. Science and Technology for the Built Environment, 2021, 27, 436-450.	1.7	3
1043	Integration of a Building Energy Model in an Urban Climate Model and its Application. Boundary-Layer Meteorology, 2021, 178, 249-281.	2.3	18

#	Article	IF	CITATIONS
1044	Coupled EnergyPlus and CFD analysis of PCM for thermal management of buildings. Energy and Buildings, 2021, 231, 110598.	6.7	76
1045	Accurate heating, ventilation and air conditioning system load prediction for residential buildings using improved ant colony optimization and wavelet neural network. Journal of Building Engineering, 2021, 35, 101972.	3.4	23
1046	Multi-sensor information fusion based control for VAV systems using thermal comfort constraints. Building Simulation, 2021, 14, 1047-1062.	5.6	17
1047	Control strategies for switchable roof insulation systems applied to US residential homes. Energy and Buildings, 2021, 231, 110649.	6.7	10
1048	Multizone airflow and pollution simulations of indoor emission sources. Science of the Total Environment, 2021, 766, 142593.	8.0	12
1049	Automated optimal control in energy systems: the reinforcement learning approach. , 2021, , 275-318.		3
1050	Short-term electric load forecasting for buildings using logistic mixture vector autoregressive model with curve registration. Applied Energy, 2021, 282, 116249.	10.1	36
1051	Prototype energy models for data centers. Energy and Buildings, 2021, 231, 110603.	6.7	17
1052	Cooling load characteristic and uncertainty analysis of a hub airport terminal. Energy and Buildings, 2021, 231, 110619.	6.7	13
1053	The relative role of solar reflectance and thermal emittance for passive daytime radiative cooling technologies applied to rooftops. Sustainable Cities and Society, 2021, 65, 102612.	10.4	23
1054	The costs and potentials for heat savings in buildings: Refurbishment costs and heat saving cost curves for 6 countries in Europe. Energy and Buildings, 2021, 231, 110454.	6.7	20
1055	Dimensionless formulation and similarity to assess the main phenomena of heat and mass transfer in building porous material. Journal of Building Engineering, 2021, 35, 101849.	3.4	3
1056	Energy usage modeling for heating and cooling of off-grid shelters. Journal of Building Engineering, 2021, 35, 102054.	3.4	3
1057	Integrated multi-objective optimization and agent-based building occupancy modeling for space layout planning. Journal of Building Engineering, 2021, 34, 101902.	3.4	16
1058	Advanced data analytics for enhancing building performances: From data-driven to big data-driven approaches. Building Simulation, 2021, 14, 3-24.	5.6	116
1059	Simulating dispatchable grid services provided by flexible building loads: State of the art and needed building energy modeling improvements. Building Simulation, 2021, 14, 441-462.	5.6	11
1060	Calibrated simulation study for efficient sizing and operating strategies for the thermal storage integrated air conditioning system. International Journal of Sustainable Energy, 2021, 40, 389-411.	2.4	3
1062	Multi-agent Simulation of Occupant Behaviour Impact on Building Energy Consumption. Studies in Computational Intelligence, 2021, , 355-364.	0.9	1

#	Article	IF	CITATIONS
1063	Parametric PGD model used with orthogonal polynomials to assess efficiently the building's envelope thermal performance. Journal of Building Performance Simulation, 2021, 14, 132-154.	2.0	2
1064	BEMS in the Era of Internet of Energy: A Review. IFIP Advances in Information and Communication Technology, 2021, , 465-476.	0.7	1
1065	Urban surface temperature observations from ground-based thermography: intra- and inter-facet variability. Urban Climate, 2021, 35, 100748.	5.7	15
1066	Universities Power Energy Management a Novel Hybrid Model Based on Iceemdan and Bayesian Optimized LSTM. SSRN Electronic Journal, 0, , .	0.4	0
1067	Tailoring Future Climate Data for Building Energy Simulation. Sustainable Development Goals Series, 2021, , 115-139.	0.4	0
1068	Building Energy Performance Assessment Methods. Green Energy and Technology, 2021, , 13-30.	0.6	0
1069	Innovative time efficient method to optimize buildings' performance using Design of Experiment, Polynomial Regression and Genetic Algorithms. Journal of Physics: Conference Series, 2021, 1714, 012014.	0.4	1
1070	Building Occupancy Behavior and Prediction Methods: A Critical Review and Challenging Locks. IEEE Access, 2021, 9, 79353-79372.	4.2	12
1071	Ventilative Cooling and Air Pollutants. PoliTO Springer Series, 2021, , 79-124.	0.5	1
1072	Parametric study on a simplified model for the estimation of the heating and the cooling loads of a closed-span greenhouse: a case study in Korea. Journal of Mechanical Science and Technology, 2021, 35, 333-341.	1.5	3
1073	Building Energy Model for Mexican Energy Standard Verification Using Physics-Based Open Studio SGSAVE Software Simulation. Sustainability, 2021, 13, 1521.	3.2	1
1074	Assessing the effects of urban street trees on building cooling energy needs: The role of foliage density and planting pattern. Sustainable Cities and Society, 2021, 65, 102633.	10.4	43
1075	Systematic review of features for coâ€simulating security incidents in <scp>Cyberâ€Physical</scp> Systems. Security and Privacy, 2021, 4, e150.	2.7	8
1076	Review of onsite temperature and solar forecasting models to enable better building design and operations. Building Simulation, 2021, 14, 885-907.	5.6	14
1077	Research on application and thermal performance of raw earth material in building envelope. Journal of Physics: Conference Series, 2021, 1777, 012041.	0.4	1
1078	Occupant-Centric key performance indicators to inform building design and operations. Journal of Building Performance Simulation, 2021, 14, 814-842.	2.0	15
1079	Our climate conditions are already changing – Should we care?. Building Services Engineering Research and Technology, 2021, 42, 507-516.	1.8	2
1080	A LCA-based Optimization Method of Green Ecological Building Envelopes: A Case Study in China. IOP Conference Series: Earth and Environmental Science, 2021, 696, 012023.	0.3	2

#	Article	IF	CITATIONS
1081	An integrated approach of BIM-enabled LCA and energy simulation: The optimized solution towards sustainable development. Journal of Cleaner Production, 2021, 289, 125622.	9.3	67
1082	Multi-Scale Smart Building Simulation Platform for Energy, Market and Automation Solutions. , 2021, ,		0
1083	Influence of Lightweight Aggregate Concrete Materials on Building Energy Performance. Buildings, 2021, 11, 94.	3.1	15
1084	Using Bayesian deep learning approaches for uncertainty-aware building energy surrogate models. Energy and Al, 2021, 3, 100039.	10.6	20
1085	Ten questions concerning co-simulation for performance prediction of advanced building envelopes. Building and Environment, 2021, 191, 107570.	6.9	25
1086	Interactive urban building energy modelling with functional mockup interface of a local residential building stock. Journal of Cleaner Production, 2021, 289, 125683.	9.3	16
1087	Sensitivity analysis of cooling demand applied to a large office building. Energy and Buildings, 2021, 235, 110703.	6.7	32
1088	Interoperability between Building Information Modelling (BIM) and Building Energy Model (BEM). Applied Sciences (Switzerland), 2021, 11, 2167.	2.5	49
1089	Resilience of vernacular and modernising dwellings in three climatic zones to climate change. Scientific Reports, 2021, 11, 9172.	3.3	13
1090	Analyzing the energy performance of buildings by neuro-fuzzy logic based on different factors. Environment, Development and Sustainability, 0, , 1.	5.0	2
1091	eplusr: A framework for integrating building energy simulation and data-driven analytics. Energy and Buildings, 2021, 237, 110757.	6.7	20
1092	A physically-based model of interactions between a building and its outdoor conditions at the urban microscale. Energy and Buildings, 2021, 237, 110788.	6.7	17
1094	Improving thermal comfort in refugee shelters in desert environments. Energy for Sustainable Development, 2021, 61, 28-45.	4.5	15
1095	besos: Building and Energy Simulation, Optimization and Surrogate Modelling. Journal of Open Source Software, 2021, 6, 2677.	4.6	5
1096	Type-2 fuzzy wavelet neural network for estimation energy performance of residential buildings. Soft Computing, 2021, 25, 11175-11190.	3.6	12
1097	Mid-term prediction of electrical energy consumption for crude oil pipelines using a hybrid algorithm of support vector machine and genetic algorithm. Energy, 2021, 222, 119955.	8.8	51
1098	Can reversible room air-conditioner be used for combined space and domestic hot water heating in subtropical dwellings? Techno-economic evidence from Hong Kong. Energy, 2021, 223, 119911.	8.8	4
1099	A pre-processing method of internal thermal mass for building energy simulation software. Journal of Building Performance Simulation, 2021, 14, 328-342.	2.0	1

#	Article	IF	CITATIONS
1100	Impact of natural and social environmental factors on building energy consumption: Based on bibliometrics. Journal of Building Engineering, 2021, 37, 102136.	3.4	52
1101	Probabilistic Load Forecasting Optimization for Building Energy Models via Day Characterization. Sensors, 2021, 21, 3299.	3.8	3
1102	Grid-Interactive Multi-Zone Building Control Using Reinforcement Learning with Global-Local Policy Search. , 2021, , .		5
1103	Impact of intelligent control algorithms on demand response flexibility and thermal comfort in a smart grid ready residential building. Smart Energy, 2021, 2, 100017.	5.7	16
1104	On the Joint Control of Multiple Building Systems with Reinforcement Learning. , 2021, , .		4
1105	Interval prediction of short-term building electrical load via a novel multi-objective optimized distributed fuzzy model. Neural Computing and Applications, 2021, 33, 15357-15371.	5.6	4
1106	Identification of passive solar design determinants in office building envelopes in hot and humid climates using data mining techniques. Building and Environment, 2021, 196, 107566.	6.9	24
1107	The impact of energy refurbishment interventions on annual energy demand, indoor thermal behaviour and temperature-related health risk. Energy Policy, 2021, 153, 112276.	8.8	14
1108	Identifying whole-building heat loss coefficient from heterogeneous sensor data: An empirical survey of gray and black box approaches. Energy and Buildings, 2021, 241, 110889.	6.7	12
1109	Energy-efficient retrofitting of multi-storey residential buildings. Facilities, 2021, 39, 722-736.	1.6	9
1110	A Data-driven System for City-wide Energy Footprinting and Apportionment. ACM Transactions on Sensor Networks, 2021, 17, 1-24.	3.6	1
1111	A literature review of building energy simulation and computational fluid dynamics co-simulation strategies and its implications on the accuracy of energy predictions. Building Services Engineering Research and Technology, 0, , 014362442110204.	1.8	11
1112	Review on building energy model calibration by Bayesian inference. Renewable and Sustainable Energy Reviews, 2021, 143, 110930.	16.4	42
1113	Stochastic energy-demand analyses with random input parameters for the single-family house. Building Simulation, 0, , 1.	5.6	7
1114	Urban microclimate and its impact on building performance: A case study of San Francisco. Urban Climate, 2021, 38, 100871.	5.7	35
1115	Data science for building energy efficiency: A comprehensive text-mining driven review of scientific literature. Energy and Buildings, 2021, 242, 110885.	6.7	31
1116	A review of web-based building energy analysis applications. Journal of Cleaner Production, 2021, 306, 127251.	9.3	9
1117	On the Optimisation of Urban form Design, Energy Consumption and Outdoor Thermal Comfort Using a Parametric Workflow in a Hot Arid Zone. Energies, 2021, 14, 4026.	3.1	16

#	Article	IF	CITATIONS
1118	Energy modeling of pig houses: A South Korean feasibility study. Energy Strategy Reviews, 2021, 36, 100672.	7.3	17
1119	Effect of urban form on microclimate and energy loads: Case study of generic residential district prototypes in Nanjing, China. Sustainable Cities and Society, 2021, 70, 102930.	10.4	39
1120	Designing an Energy-Resilient Neighbourhood Using an Urban Building Energy Model. Energies, 2021, 14, 4445.	3.1	16
1121	A Machine Learning-Based Prediction Model of LCCO2 for Building Envelope Renovation in Taiwan. Sustainability, 2021, 13, 8209.	3.2	5
1122	Potential benefits and optimization of cool-coated office buildings: A case study in Chongqing, China. Energy, 2021, 226, 120373.	8.8	13
1123	Assessing the Energy Efficiency Potential of Recycled Materials with Construction and Demolition Waste: A Spanish Case Study. Applied Sciences (Switzerland), 2021, 11, 7809.	2.5	5
1124	The influence of macro-encapsulated PCM panel's geometry on heat transfer in a ceiling application. Advances in Building Energy Research, 2022, 16, 445-465.	2.3	6
1125	Active learning strategy for high fidelity short-term data-driven building energy forecasting. Energy and Buildings, 2021, 244, 111026.	6.7	24
1126	Evaluation of phase change plaster/paste composites for building envelopes. Energy and Buildings, 2021, 253, 111372.	6.7	11
1127	Comparative Analysis between Dynamic and Quasi-Steady-State Methods at an Urban Scale on a Social-Housing District in Venice. Energies, 2021, 14, 5164.	3.1	8
1128	The energy performance and passive survivability of high thermal insulation buildings in future climate scenarios. Building Simulation, 2022, 15, 1209-1225.	5.6	23
1129	Estratégias bioclimáticas e conforto ambiental. PARC: Pesquisa Em Arquitetura E Construção, 0, 12, e021021.	0.3	1
1130	Are low-income mass housing envelops energy efficient and comfortable? A multi-objective evaluation in warm-humid climate. Energy and Buildings, 2021, 245, 111055.	6.7	14
1131	Application of a probabilistic LHS-PAWN approach to assess building cooling energy demand uncertainties. Building Simulation, 2022, 15, 373-387.	5.6	12
1132	Passive cooling designs to improve heat resilience of homes in underserved and vulnerable communities. Energy and Buildings, 2021, 252, 111383.	6.7	26
1133	Fast generation of microclimate weather data for building simulation under heat island using map capturing and clustering technique. Sustainable Cities and Society, 2021, 71, 102954.	10.4	15
1134	Climatic Effect on the Exergetic Performance of Conventional to Hybrid Evaporative Coolers With Varying Dead-State Temperatures in India. Journal of Thermal Science and Engineering Applications, 2022, 14, .	1.5	0
1135	Edge HVAC Analytics. Energies, 2021, 14, 5464.	3.1	7

#	Article	IF	CITATIONS
1136	Heating Performances of a Large-Scale Factory Evaluated through Thermal Comfort and Building Energy Consumption. Energies, 2021, 14, 5617.	3.1	2
1137	Building energy and thermo-hydraulic simulation (BETHS) for district heat system in residential communities: A case of Shenyang, China. Energy and Buildings, 2021, 247, 111114.	6.7	3
1138	Quantifying the impact of residential space heating electrification on the Texas electric grid. Applied Energy, 2021, 298, 117113.	10.1	34
1139	Prediction of residential district heating load based on machine learning: A case study. Energy, 2021, 231, 120950.	8.8	45
1140	Design-based natural ventilation cooling potential evaluation for buildings in China. Journal of Building Engineering, 2021, 41, 102345.	3.4	13
1141	Exploring the Predictability of Temperatures in a Scaled Model of a Smarthome. Sensors, 2021, 21, 6052.	3.8	1
1142	Software Architecture and Implementation of Modelica Buildings Library Coupling for Spawn of EnergyPlus. , 0, , .		3
1143	Scientometric mapping of smart building research: Towards a framework of human-cyber-physical system (HCPS). Automation in Construction, 2021, 129, 103776.	9.8	33
1144	Conflicts in passive building performance: Retrofit and regulation of informal neighbourhoods. Frontiers of Architectural Research, 2021, 10, 625-638.	2.8	2
1145	Multi-objective optimization of energy efficiency and thermal comfort in an existing office building using NSGA-II with fitness approximation: A case study. Journal of Building Engineering, 2021, 41, 102440.	3.4	35
1146	Using urban building energy modelling (UBEM) to support the new European Union's Green Deal: Case study of Dublin Ireland. Energy and Buildings, 2021, 247, 111115.	6.7	54
1147	Control co-design of commercial building chiller plant using Bayesian optimization. Energy and Buildings, 2021, 246, 111077.	6.7	17
1148	Analysis of thermal energy storage tanks and PV panels combinations in different buildings controlled through model predictive control. Energy, 2022, 239, 122201.	8.8	10
1149	Al-Assisted approach for building energy and carbon footprint modeling. Energy and Al, 2021, 5, 100091.	10.6	17
1150	Development of a second-order dynamic model for quantifying impact of thermal mass on indoor thermal environment. Journal of Building Engineering, 2021, 42, 102496.	3.4	3
1151	Energy related performance of manual shading devices in private offices: An occupant behavior-based comparative study using modeling approaches. Case Studies in Thermal Engineering, 2021, 27, 101336.	5.7	1
1152	Feasibility study and multi-objective optimization of seawater cooling systems for data centers: A case study of Caspian Sea. Sustainable Energy Technologies and Assessments, 2021, 47, 101528.	2.7	3
1153	Urban meteorological forcing data for building energy simulations. Building and Environment, 2021, 204, 108088.	6.9	23

#	Article	IF	CITATIONS
1154	Evaluation of cooling setpoint setback savings in commercial buildings using electricity and exterior temperature time series data. Energy, 2021, 233, 121117.	8.8	1
1155	Comprehensive exergetic, sustainability and enviro-economic evaluation of single-stage and hybrid evaporative coolers in India. Sustainable Energy Technologies and Assessments, 2021, 47, 101403.	2.7	2
1156	Evaluation of simulation models for predicting the energy performance of aerogel glazing system. Journal of Building Engineering, 2021, 42, 103058.	3.4	2
1157	Impact of BIPV windows on building energy consumption in street canyons: Model development and validation. Energy and Buildings, 2021, 249, 111207.	6.7	19
1158	Optimal investment and scheduling of residential multi-energy systems including electric mobility: A cost-effective approach to climate change mitigation. Applied Energy, 2021, 301, 117445.	10.1	18
1159	Magnitude and distribution of the untapped solar space-heating resource in U.S. climates. Renewable and Sustainable Energy Reviews, 2021, 151, 111599.	16.4	6
1160	Comparing deep learning models for multi energy vectors prediction on multiple types of building. Applied Energy, 2021, 301, 117486.	10.1	25
1161	Energy model calibration in an office building by an optimization-based method. Energy Reports, 2021, 7, 4397-4411.	5.1	10
1162	Simulation and experimental study of residential building with north side wind tower assisted by solar chimneys. Journal of Building Engineering, 2021, 43, 102562.	3.4	15
1163	Parametric study of solid-solid translucent phase change materials in building windows. Applied Energy, 2021, 301, 117467.	10.1	24
1164	EASI RBD-FAST: An efficient method of global sensitivity analysis for present and future challenges in building performance simulation. Journal of Building Engineering, 2021, 43, 103129.	3.4	7
1165	A novel sensitivity analysis of commercial building hybrid energy-structure performance. Journal of Building Engineering, 2021, 43, 102808.	3.4	2
1166	Computational approach to extend the air-conditioning usage to adaptive comfort: Adaptive-Comfort-Control-Implementation Script. Automation in Construction, 2021, 131, 103900.	9.8	9
1167	Predicting residential electricity consumption using aerial and street view images. Applied Energy, 2021, 301, 117407.	10.1	10
1168	Operation of climate-adaptive building shells utilizing machine learning under sparse data conditions. Journal of Building Engineering, 2021, 43, 103027.	3.4	4
1169	Pumping ventilation of corner and single sided rooms with two openings. Building and Environment, 2021, 205, 108171.	6.9	12
1170	High-resolution hourly surrogate modeling framework for physics-based large-scale building stock modeling. Sustainable Cities and Society, 2021, 75, 103292.	10.4	7
1171	Effect of design and operational strategies on thermal comfort and productivity in a multipurpose school building. Journal of Building Engineering, 2021, 44, 102697.	3.4	15

#	Article	IF	CITATIONS
1172	ShelTherm: An aid-centric thermal model for shelter design. Journal of Building Engineering, 2021, 44, 102579.	3.4	1
1173	Subsurface utilization as a heat sink for large-scale ground source heat pump: Case study in Bangkok, Thailand. Renewable Energy, 2021, 180, 966-979.	8.9	8
1174	Data-driven building energy modeling with feature selection and active learning for data predictive control. Energy and Buildings, 2021, 252, 111436.	6.7	20
1175	Modelica-based system modeling for studying control-related faults in chiller plants and boiler plants serving large office buildings. Journal of Building Engineering, 2021, 44, 102654.	3.4	4
1176	Impact of urban morphology on urban microclimate and building energy loads. Energy and Buildings, 2021, 253, 111499.	6.7	30
1177	A parametric optimisation study of urban geometry design to assess outdoor thermal comfort. Sustainable Cities and Society, 2021, 75, 103352.	10.4	24
1178	Simulation and power quality analysis of a Loose-Coupled bipolar DC microgrid in an office building. Applied Energy, 2021, 303, 117606.	10.1	18
1179	Design and implementation of an occupant-centered self-learning controller for decentralized residential ventilation systems. Building and Environment, 2021, 206, 108380.	6.9	7
1180	Photovoltaics in the built environment: A critical review. Energy and Buildings, 2021, 253, 111479.	6.7	35
1181	Analysis of influencing factors on heat consumption of large residential buildings with different occupancy rates-Tianjin case study. Energy, 2022, 238, 121834.	8.8	4
1182	Planning level sizing of heat pumps and hot water tanks incorporating model predictive control and future electricity tariffs. Energy, 2022, 238, 121731.	8.8	11
1183	Co-benefits of energy efficiency in residential buildings. Energy, 2022, 238, 121768.	8.8	13
1184	Modelling, Optimisation and Modernisation of Heating Systems. , 2021, , 87-208.		0
1185	Unmanned driving intelligent algorithm simulation platform. , 2021, , 297-341.		0
1186	Large-scale estimation of buildings' thermal load using LiDAR data. Energy and Buildings, 2021, 231, 110626.	6.7	8
1187	Urban Microclimate and Building Energy Simulation Coupling Techniques. , 2021, , 317-337.		2
1188	Hybridization of Heat Pump Systems With Natural Ventilation To Improve Energy Efficiency in Cooling Dominated Buildings. Renewable Energy and Environmental Sustainability, 2021, 6, 33.	1.4	1
1190	Daylight daylight/daylighting , Indoor Illumination indoor illumination , and Human Behavior. , 2012, , 2804-2846.		4

#	Article	IF	CITATIONS
1191	Daylight daylight/daylighting , Indoor Illumination indoor illumination , and Human Behavior. , 2013, , 69-111.		2
1192	Energy Consumption Prediction of Residential Buildings Using Fuzzy Neural Networks. Advances in Intelligent Systems and Computing, 2019, , 507-515.	0.6	1
1193	An Economic and Environmental Comparison of Conventional and Controlled Environment Agriculture (CEA) Supply Chains for Leaf Lettuce to US Cities. , 2020, , 33-68.		9
1195	Thermal Comfort Approaches and Building Performance. SpringerBriefs in Applied Sciences and Technology, 2016, , 47-60.	0.4	4
1197	Integration of the WUDAPT, WRF, and ENVI-met models to simulate extreme daytime temperature mitigation strategies in San Jose, California. Building and Environment, 2020, 184, 107180.	6.9	42
1198	Investigation of the correlation of building energy use intensity estimated by six building performance simulation tools. Energy and Buildings, 2017, 147, 14-26.	6.7	30
1199	Passive design optimization of newly-built residential buildings in Shanghai for improving indoor thermal comfort while reducing building energy demand. Energy and Buildings, 2018, 169, 484-506.	6.7	197
1200	Coupling CFD and building energy modelling to optimize the operation of a large open office space for occupant comfort. Sustainable Cities and Society, 2020, 60, 102257.	10.4	51
1201	Research On Prediction Of Electricity Consumption In Smart Parks Based On Multiple Linear Regression. , 2020, , .		2
1202	Towards Trust-Augmented Visual Analytics for Data-Driven Energy Modeling. , 2020, , .		1
1203	Effectiveness of Mechanical Air Conditioning as a Protective Factor Against Indoor Exposure to Heat Among the Elderly. ASME Journal of Engineering for Sustainable Buildings and Cities, 2020, 1, .	0.9	5
1204	Adapting to Extreme Heat: Social, Atmospheric, and Infrastructure Impacts of Air-Conditioning in Megacities—The Case of New York City. ASME Journal of Engineering for Sustainable Buildings and Cities, 2020, 1, .	0.9	4
1205	A Computationally Efficient, High-Fidelity Testbed for Building Climate Control. ASME Journal of Engineering for Sustainable Buildings and Cities, 2021, 2, .	0.9	4
1206	Data-Driven Energy and Population Estimation for Real-Time City-Wide Energy Footprinting. , 2019, , .		4
1207	Assessment on Passive Cooling Techniques to Improve Steel Roof Thermal Performance in Hot Tropical Climate. International Journal of Energy and Power Engineering, 2014, 3, 287.	0.3	7
1208	Effects of Pipe Network Materials and Distance on Unused Energy Source System Performance for Large-scale Horticulture Facilities. KIEAE Journal, 2014, 14, 119-125.	0.3	2
1209	A Case-Crossover Analysis of Indoor Heat Exposure on Mortality and Hospitalizations among the Elderly in Houston, Texas. Environmental Health Perspectives, 2020, 128, 127007.	6.0	13
1210	Analysis of Energy Conservation of an Institutional Building using Design Builder Software. International Journal of Recent Advances in Mechanical Engineering, 2015, 4, 133-139.	0.1	7

#	Article	IF	CITATIONS
1211	lsıl Konfor Sıcaklıklarına Bağlı Olarak Bir Konutun Enerji Performansının Değerlendirmesi: İzmir Sakarya University Journal of Science, 2018, 22, 784-798.	Ã <u>−</u> rneÄŸi. 0.7	3
1212	Effects of Pipe Network Composition and Length on Power Plant Waste Heat Utilization System Performance for Large-scale Horticulture Facilities. Transactions of the Korea Society of Geothermal Energy Engineers, 2015, 11, 14-21.	0.2	1
1213	Health Effects of Indoor Emissions Combining Outdoor and Indoor Pollution Simulations. International Journal of Environmental Science and Development, 2019, 10, 394-398.	0.6	1
1214	A Proposal for Desert House Design in Egypt Using Passive Ground Cooling Techniques. Renewable Energy and Sustainable Development, 2018, 4, 21.	0.5	4
1221	Cooling effectiveness of mist precooler for improving energy performance of air-cooled chiller. Thermal Science, 2018, 22, 193-204.	1.1	4
1222	Prototyping The BOPTEST Framework For Simulation-Based Testing Of Advanced Control Strategies In Buildings. , 0, , .		5
1223	Tool coupling for the design and operation of building energy and control systems based on the Functional Mock-up Interface standard. , 2014, , .		10
1224	Energy Efficient Design for Hotels in the Tropical Climate using Modelica. , 2015, , .		2
1225	Health and Climate Benefits of Heat Adaptation Strategies in Single-Family Residential Buildings. Frontiers in Sustainable Cities, 2020, 2, .	2.4	3
1226	Modeling Thermal Interactions between Buildings in an Urban Context. Energies, 2020, 13, 2382.	3.1	23
1227	Evaluation of renewable energy deployment scenarios for building energy management. AIMS Energy, 2016, 4, 742-761.	1.9	3
1228	Definiendo patrones de ocupación mediante la monitorización de edificios existentes. Informes De La Construccion, 2017, 69, 223.	0.3	6
1229	EFFECT OF A NOVEL INTERNAL ROLLER SHADING SYSTEM ON ENERGY PERFORMANCE. Journal of Green Building, 2014, 9, 125-145.	0.8	3
1230	OPTIMAL WINDOW GEOMETRY FACTORS FOR ELEMENTARY SCHOOL BUILDINGS IN PORTUGAL. Journal of Green Building, 2018, 13, 185-198.	0.8	5
1231	DEVELOPING AN ENERGY BENCHMARKING SYSTEM FOR HOTEL BUILDINGS USING THE STATISTICAL METHOD AND THE SIMULATION-BASED APPROACH. Journal of Green Building, 2019, 14, 1-22.	0.8	1
1232	IDENTIFYING OCCUPANTS' APPROPRIATE SEATING POSITION AND VIEW DIRECTION IN OFFICE BUILDINGS: A STOCHASTIC SHADE CONTROL BASED MULTIOBJECTIVE VISUAL COMFORT OPTIMIZATION. Journal of Green Building, 2020, 15, 15-36.	0.8	5
1233	ENERGY RETROFIT OF HISTORICAL BUILDINGS: AN ITALIAN CASE STUDY. Journal of Green Building, 2012, 7, 144-165.	0.8	17
1238	Assessing the Economic Challenges Toward the Implementation of Performance-Based Energy Code for Non-Residential Buildings in Developing Countries. SSRN Electronic Journal, 0, , .	0.4	0

#	Article	IF	CITATIONS
1239	Low Voltage Distribution Networks Modeling and Unbalanced (Optimal) Power Flow: A Comprehensive Review. IEEE Access, 2021, 9, 143026-143084.	4.2	5
1240	Çoklu Kaynak Gerektiren Parçalarda Kaynak Sırasının Genetik Algoritma Kullanılarak Belirlenmesi. European Journal of Science and Technology, 0, , .	0.5	1
1241	Application of Artificial Neural Network Model for Optimized Control of Condenser Water Temperature Set-Point in a Chilled Water System. International Journal of Thermophysics, 2021, 42, 1.	2.1	3
1242	Solar radiation control passive strategy for reduction of heating and cooling energy use in arid climate: Case of Afghanistan. Indoor and Built Environment, 2022, 31, 955-971.	2.8	6
1243	Uni-Variate and Multi-Variate Short-Term Household Electricity Consumption Prediction Using Machine Learning Technique. Recent Advances in Computer Science and Communications, 2021, 14, .	0.7	0
1244	A Dynamic Graph-Based Systems Framework for Modeling, and Control of Cyber-Physical Systems Typified by Buildings. , 0, , .		0
1245	Universities power energy management: A novel hybrid model based on iCEEMDAN and Bayesian optimized LSTM. Energy Reports, 2021, 7, 6473-6488.	5.1	26
1246	Assessing users' willingness-to-engagement towards Net Zero Energy communities in Italy. Renewable and Sustainable Energy Reviews, 2021, 152, 111627.	16.4	21
1248	A methodology for optimal design of sustainable buildings. , 2005, , .		0
1250	Développement et mise en œuvre d'un SIG 3D environnemental urbain. Revue Internationale De Géomatique, 2006, 16, 71-91.	0.1	1
1251	Uncertainty Analysis of Weather Controlled Systems. Lecture Notes in Economics and Mathematical Systems, 2010, , 247-258.	0.3	1
1252	Development of an Interactive Graphical User Interface (GUI) for EnergyPlus. , 2010, , .		0
1253	INFLUENCE OF THERMAL INSULATION ON THE ENERGY BALANCE FOR COLD-FORMED BUILDINGS. , 2010, , 742-766.		5
1254	Algoritmo de Optimización Energética Sustentable para el Habitat en Zonas Semiáridas del Oeste Argentino. Iberoamerican Journal of Industrial Engineering, 2012, 4, 19-31.	0.0	0
1255	Parameter-Invariant Actuator Fault Diagnostics in Cyber-Physical Systems with Application to Building Automation. Lecture Notes in Control and Information Sciences, 2013, , 179-196.	1.0	2
1256	Net zero energy house in Serbian conditions for Kragujevac. IMK-14 - Istrazivanje I Razvoj, 2014, 20, 23-30.	0.0	0
1257	Simulating House Cooling Methods to Decrease Energy Consumption by Creating Awareness and Attitude Change. International Journal of Smart Home, 2014, 8, 177-190.	0.4	4
1259	An ICT platform for building analytics. , 2014, , 775-781.		1

# 1260	ARTICLE A study on the Suitable Slat Angle of Blinds in Different Seasons. , 0, , .	IF	Citations 0
1261	Thinking Massively Parallel: Design Modelling Thermoactive Architecture. , 2015, , 137-148.		0
1262	Characterization of the Effects of Insulating Wall Paint on Space Conditioning in a Room. Journal of Thermal Engineering, 2015, 1, 322.	1.6	3
1263	Utilization of Heat from Waste-Incineration Facility for Heating Large-Scale Horticultural Facilities. Korean Journal of Air-Conditioning and Refrigeration Engineering, 2015, 27, 418-425.	0.1	1
1264	Implications of the Assumptions in Assessing Building Thermal Balance. SpringerBriefs in Applied Sciences and Technology, 2016, , 35-45.	0.4	2
1265	Building Envelope and Thermal Balance. SpringerBriefs in Applied Sciences and Technology, 2016, , 1-20.	0.4	0
1266	Modelagem paramétrica para simulação do desempenho da iluminação natural e termo-energético da edifica§ão. , 0, , .		2
1267	A Detailed Analysis of the Part Load Ratio and Cooling Energy Characteristics of Chiller Operation in an Office Building. Korean Journal of Air-Conditioning and Refrigeration Engineering, 2015, 27, 567-573.	0.1	2
1268	Generative Trees. Advances in Media, Entertainment and the Arts, 2016, , 898-924.	0.1	0
1269	Detailed Analysis on Operation Characteristics and Cooling Energy Saving Effect of Chiller Staging in an Office Building. Korean Journal of Air-Conditioning and Refrigeration Engineering, 2016, 28, 137-144.	0.1	0
1270	Optimization of Coupled Building Roof Solar Reflectance and Thermal Insulation Level for Annual Energy Saving Under Different Climate Zones. , 2017, , .		0
1271	WpÅ,yw buforowania wilgoci oraz wentylacji naturalnej na klimat wewnÄ™trzny w budynku mieszkalnym. CiepÅownictwo Ogrzewnictwo Wentylacja, 2017, 1, 24-32.	0.0	0
1272	THE INVESTIGATION OF DIFFERENT APPROACHES TO HEATING SYSTEM LOAD DETERMINATION. POWER ENGINEERING Economics Technique Ecology, 2017, .	0.1	0
1273	ϴʹϴϿͺͺϴͽϿϧϿϯϿͼϴϿ¢ϴžϴͽϿʹϿϯϴϯϴϯͺϴʹʹϴͻϴͺϴϿϿϿϴϴϴϴϿͽϴͽϴͽϴ϶ϴϴ϶ϴϴ϶ϴϴ϶ϴϤͼϴͽ϶ϴ϶	⅁ <b></b> ֎֎՟֎ֈ	¢ <b>Ð</b> ~К БÐ <del>£</del>
1274	Cross-platform, Public Domain Simulation Tools for Performing Parametric IAQ and Energy Analysis. , 2018, , .		0
1275	Building Energy Simulation and the Design of Sustainable and Resilient Buildings. , 2019, , 241-271.		0
1276	Operational Characterisation of Neighbourhood Heat Energy After Large-Scale Building Retrofit. Springer Proceedings in Energy, 2019, , 217-229.	0.3	0
1277	The Simulations of Energy based on the Building Masterplan of RSUD Pandan Arang Boyolali. , 0, , .		1

#	Article	IF	CITATIONS
1278	Generative Trees. , 2019, , 399-425.		0
1279	Landscape and Nature: Olive Tree Digital Parameterization. , 2019, , 57-84.		0
1280	Dynamic Simulation Platform of the Studied Building Systems. , 2019, , 25-35.		0
1281	Coupling Power System Dynamics and Building Dynamics to Enabling Building-to-Grid Integration. , 2019, , .		1
1282	The Impact of Stakeholder Preferences in Multicriteria Evaluation for the Retrofitting of Office Buildings in Italy. Smart Innovation, Systems and Technologies, 2020, , 581-591.	0.6	0
1283	Modeling Whole Building Air Leakage and Validation of Simulation Results against Field Measurements. , 2019, , 277-290.		0
1284	Visualizing Urban Microclimate and Quantifying its Impact on Building Energy Use in San Francisco. , 2019, , .		1
1285	The Synergy of Simulation and Time Series Forecasting for Live Performance Testing of Smart Buildings. , 2019, , .		0
1286	Multivariate Adaptive Regression Spline approach for the assessment of surface mean pressure coefficient on surfaces of C-shaped building. Scientia Iranica, 2020, .	0.4	0
1287	Probabilistic Power Consumption Modeling for Commercial Buildings Using Logistic Regression Markov Chain. , 2020, , .		0
1288	Building optimization testing framework (BOPTEST) for simulation-based benchmarking of control strategies in buildings. Journal of Building Performance Simulation, 2021, 14, 586-610.	2.0	48
1289	Experimental-simulation methodology for estimation of thermal parameters of adaptive facades in mild climate conditions: A water-flow glazing case study. Journal of Building Engineering, 2022, 45, 103384.	3.4	0
1290	Sustainability of Shallow Geothermal Energy for Building Air-Conditioning. Energies, 2021, 14, 7058.	3.1	5
1291	Investigating the effect of solar heat gain on intermittent operation characteristics of radiant cooling floor. Energy and Buildings, 2022, 255, 111628.	6.7	9
1292	Potential Energy, Demand, Emissions, and Cost Savings Distributions for Buildings in a Utility's Service Area. Energies, 2021, 14, 132.	3.1	8
1293	PCA-ANN integrated NSGA-III framework for dormitory building design optimization: Energy efficiency, daylight, and thermal comfort. Applied Energy, 2022, 305, 117828.	10.1	37
1294	High-resolution combined building stock and building energy modeling to evaluate whole-life carbon emissions and saving potentials at the building and urban scale. Resources, Conservation and Recycling, 2022, 177, 106000.	10.8	17
1295	Estimating spatial and temporal patterns of urban building anthropogenic heat using a bottom-up city building heat emission model. Resources, Conservation and Recycling, 2022, 177, 105996.	10.8	10

#	Article	IF	CITATIONS
1296	Role of Green Buildings in Reduction of Energy Consumption. , 2020, , 439-451.		0
1297	L'enveloppe solaire : un retour vers le futur. SHS Web of Conferences, 2020, 82, 01002.	0.2	0
1298	A Study on Media Literacy of Industrial Education. International Journal of Information and Education Technology, 2020, 10, 122-126.	1.2	1
1299	Assessment of building daylight systems considering sunscreens under real conditions of the sky. Vestnik MGSU, 2020, , 180-200.	0.6	0
1300	Effects of Rooftop Photovoltaics on Building Cooling Demand and Sensible Heat Flux Into the Environment for an Installation on a White Roof. ASME Journal of Engineering for Sustainable Buildings and Cities, 2020, 1, .	0.9	9
1301	Using Reinforcement Learning and Simulation to Develop Autonomous Vehicle Control Strategies. , 0,		0
1302	Computationally efficient integrated design and predictive control of flexible energy systems using multiâ€fidelity simulationâ€based Bayesian optimization. Optimal Control Applications and Methods, 0, , .	2.1	5
1303	A Parametric Analysis for Short-Term Residential Electrification with Electric Water Tanks. The Case of Spain. Sustainability, 2021, 13, 12070.	3.2	0
1304	Holistic Building Performance Evaluation: An Integrated Post-Occupancy Evaluation and Energy Modeling (POEEM) Framework. , 2020, , .		2
1305	Optimum Properties and Distribution of Phase Change Materials for High-Performance Concrete Buildings. , 2020, , .		0
1306	A Review and Categorization of Grid-Interactive Efficient Building Technologies for Building Performance Simulation. ASME Journal of Engineering for Sustainable Buildings and Cities, 2020, 1, .	0.9	3
1307	Flexible Reinforcement Learning Framework for Building Control using EnergyPlus-Modelica Energy Models. , 2020, , .		3
1308	Energy balance and climate control assessments in greenhouse projects using Hortinergy, a friendly scientifically based web tool. Acta Horticulturae, 2020, , 41-48.	0.2	0
1309	Assessing the Energy Performance of Prefabricated Buildings Considering Different Wall Configurations and the Use of PCMs in Greece. Energies, 2020, 13, 5026.	3.1	9
1310	Chilled water temperature resetting using model-free reinforcement learning: Engineering application. Energy and Buildings, 2022, 255, 111694.	6.7	16
1311	Co-simulation of dynamic underground heat transfer with building energy modeling based on equivalent slab method. Energy and Buildings, 2022, 256, 111728.	6.7	10
1312	Modelling spatial variations in thermal comfort in indoor open-plan spaces using a whole-building simulation tool. Journal of Building Engineering, 2022, 46, 103727.	3.4	5
1313	On the Benefits of Whole-building IAQ, Ventilation, Infiltration, and Energy Analysis Using Co-simulation between CONTAM and EnergyPlus. Journal of Physics: Conference Series, 2021, 2069, 012183.	0.4	1

#	Article	IF	CITATIONS
1314	Information modelling for urban building energy simulation—A taxonomic review. Building and Environment, 2022, 208, 108552.	6.9	33
1315	Nearly optimal demand side management for energy, thermal, EV and storage loads: An Approximate Dynamic Programming approach for smarter buildings. Energy and Buildings, 2022, 255, 111676.	6.7	27
1316	Utilization of on-grid photovoltaic panels to offset electricity consumption of a residential ground source heat pump. Energy, 2022, 243, 122770.	8.8	12
1317	Deep Q-network boosted with external knowledge for HVAC control. , 2021, , .		2
1318	Urban energy simulations using open CityGML models: A comparative analysis. Energy and Buildings, 2022, 255, 111658.	6.7	18
1319	Opportunities for passive cooling to mitigate the impact of climate change in Switzerland. Building and Environment, 2022, 208, 108574.	6.9	27
1320	Containerized framework for building control performance comparisons. , 2021, , .		4
1321	Building envelope anomaly characterization and simulation using drone time-lapse thermography. Energy and Buildings, 2022, 259, 111754.	6.7	15
1322	A procedure for automating thermal zoning for building energy simulation. Journal of Building Engineering, 2022, 46, 103780.	3.4	4
1323	A simplified evaluation method of rooftop solar energy potential based on image semantic segmentation of urban streetscapes. Solar Energy, 2021, 230, 912-924.	6.1	17
1325	Reassessment of fenestration characteristics for residential buildings in hot climates: energy and economic analysis. Frontiers in Energy, 2022, 16, 629-650.	2.3	2
1326	A quantification of classic but unquantified positive feedback effects in the urban-building-energy-climate system. Applied Energy, 2022, 307, 118227.	10.1	7
1327	Urban buoyancy-driven air flow and modelling method: A critical review. Building and Environment, 2022, 210, 108708.	6.9	23
1328	Comparison of online and offline deep reinforcement learning with model predictive control for thermal energy management. Automation in Construction, 2022, 135, 104128.	9.8	32
1329	A Round Robin Test on the dynamic simulation and the LEED protocol evaluation of a green building. Sustainable Cities and Society, 2022, 78, 103654.	10.4	3
1330	Load forecast and fuzzy control of the air-conditioning systems at the subway stations. Journal of Building Engineering, 2022, 49, 104029.	3.4	4
1331	Control Modeling for Large District Heating. SSRN Electronic Journal, 0, , .	0.4	0
1332	Data-Driven Load Modeling and Forecasting of Residential Appliances. , 2021, , .		1

#	Article	IF	CITATIONS
1333	CityFFD – City fast fluid dynamics for urban microclimate simulations on graphics processing units. Urban Climate, 2022, 41, 101063.	5.7	20
1334	A Case Study of a Nursing Home in Nagano, Japan: Field Survey on Thermal Comfort and Building Energy Simulation for Future Climate Change. Energies, 2022, 15, 936.	3.1	8
1335	Application of the Renewable Energy Sources at District Scale—A Case Study of the Suburban Area. Energies, 2022, 15, 473.	3.1	6
1336	Assessment of Waterfront Office Redevelopment Plan on Optimal Building Arrangements with Rooftop Photovoltaics: A Case Study for Shinagawa, Tokyo. Energies, 2022, 15, 883.	3.1	4
1337	A cloud-based platform to predict wind pressure coefficients on buildings. Building Simulation, 2022, 15, 1507-1525.	5.6	11
1338	Estimating ASHRAE Guideline 36 energy savings for multi-zone variable air volume systems using Spawn of EnergyPlus. Journal of Building Performance Simulation, 2022, 15, 215-236.	2.0	16
1339	Chiller–pump system optimisation method for minimum energy operation based on multi-objective evolutionary algorithm. Applied Thermal Engineering, 2022, 208, 118150.	6.0	5
1340	Naturally grown mycelium-composite as sustainable building insulation materials. Journal of Cleaner Production, 2022, 342, 130784.	9.3	34
1341	Spatiotemporal upscaling errors of building stock clustering for energy demand simulation. Energy and Buildings, 2022, 258, 111844.	6.7	13
1342	Building energy efficiency and load flexibility optimization using phase change materials under futuristic grid scenario. Journal of Cleaner Production, 2022, 339, 130561.	9.3	24
1343	On the accuracy of Urban Building Energy Modelling. Renewable and Sustainable Energy Reviews, 2022, 158, 111976.	16.4	30
1344	Exploring the potential of nearly zero energy retrofitting for generic office buildings in Cairo, Egypt. Energy Reports, 2022, 8, 116-122.	5.1	3
1345	Real-time building heat gains prediction and optimization of HVAC setpoint: An integrated framework. Journal of Building Engineering, 2022, 49, 104103.	3.4	7
1346	Predicting Building Energy Consumption using Engineering and Data Driven Approaches: A Review. European Journal of Education and Pedagogy, 2017, 2, 44-49.	0.3	0
1347	Wireless Sensor Networks for Building Information Modeling. Telecom, 2022, 3, 118-134.	2.6	2
1348	Better understanding on impact of microclimate information on building energy modelling performance for urban resilience. Sustainable Cities and Society, 2022, 80, 103775.	10.4	18
1349	Benchmarking Approaches for Assessing the Performance of Building Control Strategies: A Review. Energies, 2022, 15, 1270.	3.1	5
1350	An approximate parametric model for quantifying the thermal mass with harmonic variation of outdoor air temperature. Journal of Building Engineering, 2022, 50, 104195.	3.4	0

#	Article	IF	CITATIONS
1351	Physical energy and data-driven models in building energy prediction: A review. Energy Reports, 2022, 8, 2656-2671.	5.1	98
1352	CHAMPS-Multizone—A combined heat, air, moisture and pollutant simulation environment for whole-building performance analysis. HVAC and R Research, 2012, 18, 233-251.	0.6	2
1353	Application of Artificial Neural Networks in the Urban Building Energy Modelling of Polish Residential Building Stock. Energies, 2021, 14, 8285.	3.1	5
1354	Thermal Comfort Effects in Different Open Green Spaces: A Parametric Optimization Study of Urban Spaces Design in China's Cold Region. SSRN Electronic Journal, 0, , .	0.4	0
1355	Application evaluation of passive energy-saving strategies in exterior envelopes for rural traditional dwellings in northeast of Sichuan hills, China. International Journal of Low-Carbon Technologies, 2022, 17, 342-355.	2.6	8
1356	Analysis of indoor set-point temperature of split-type ACs on thermal comfort and energy savings for office buildings in hot-humid climates. Energy and Built Environment, 2023, 4, 368-376.	5.9	10
1357	Building Thermal-Network Models: A Comparative Analysis, Recommendations, and Perspectives. Energies, 2022, 15, 1328.	3.1	16
1358	D-ART for collaboration in evaluating design alternatives. International Journal of Architectural Computing, 0, , 147807712210822.	1.5	1
1359	Computer Vision-Driven Building Energy Modeling Framework for Post-Occupant Interior Energy Consumption. , 2022, , .		0
1360	Integrated Design and Optimization of Water-Energy Nexus: Combining Wastewater Treatment and Energy System. Frontiers in Sustainable Cities, 2022, 4, .	2.4	1
1362	Investigating the performance of genetic algorithm and particle swarm for optimizing daylighting and energy performance of offices in Alexandria, Egypt. Smart and Sustainable Built Environment, 2022, ahead-of-print, .	4.0	2
1363	Implementation of BIM Energy Analysis and Monte Carlo Simulation for Estimating Building Energy Performance Based on Regression Approach: A Case Study. Buildings, 2022, 12, 449.	3.1	21
1364	A novel Energy-Flow based Ensemble Calibration model for rapid and accurate energy-economic performance prediction of deep energy retrofit in single-family houses. Energy Conversion and Management, 2022, 258, 115507.	9.2	5
1365	Towards Energy-Positive Buildings through a Quality-Matched Energy Flow Strategy. Sustainability, 2022, 14, 4275.	3.2	2
1366	Multiscale analysis of water vapor diffusion in low density fiberboard: Implications as a building material. Construction and Building Materials, 2022, 329, 127047.	7.2	5
1367	Providing renewable cooling in an office building with a Ground–Source heat pump system hybridized with natural ventilation & personal comfort systems. Energy and Buildings, 2022, 261, 111982.	6.7	9
1368	Contrasting accuracies of single and ensemble models for predicting solar and thermal performances of traditional vaulted roofs. Solar Energy, 2022, 236, 335-355.	6.1	4
1369	Systematically incorporating spectrum-selective radiative cooling into building performance simulation: Numerical integration method and experimental validation. Applied Energy, 2022, 312, 118733.	10.1	18

#	Article	IF	CITATIONS
1370	Integrated artificial neural network prediction model of indoor environmental quality in a school building. Journal of Cleaner Production, 2022, 344, 131083.	9.3	26
1371	CityGML model generation using parametric interpolations. Proceedings of the Institution of Civil Engineers - Smart Infrastructure and Construction, 0, , 1-20.	1.7	0
1372	Multi-regional building energy efficiency intelligent regulation strategy based on multi-objective optimization and model predictive control. Journal of Cleaner Production, 2022, 349, 131264.	9.3	10
1373	Thermal performance and energy consumption analysis of eight types of extensive green roofs in subtropical monsoon climate. Building and Environment, 2022, 216, 108982.	6.9	20
1374	CntrlDA: A building energy management control system with real-time adjustments. Application to indoor temperature. Building and Environment, 2022, 215, 108938.	6.9	8
1375	An integrated power load point-interval forecasting system based on information entropy and multi-objective optimization. Applied Energy, 2022, 314, 118938.	10.1	25
1376	Comparison analysis on simplification methods of building performance optimization for passive building design. Building and Environment, 2022, 216, 108990.	6.9	5
1377	Cool roofs can mitigate cooling energy demand for informal settlement dwellers. Renewable and Sustainable Energy Reviews, 2022, 159, 112183.	16.4	18
1378	Photovoltaic rooftop's contribution to improve building-level energy resilience during COVID-19 work-from-home arrangement. Energy for Sustainable Development, 2022, 68, 182-191.	4.5	11
1379	A study on influencing factors of optimum insulation thickness of exterior walls for rural traditional dwellings in northeast of Sichuan hills, China. Case Studies in Construction Materials, 2022, 16, e01033.	1.7	5
1380	Comparative Analysis of the Daylight and Building-Energy Performance of a Double-Skin Facade System with Multisectional Shading Devices of Different Control Strategies. Journal of Energy Engineering - ASCE, 2022, 148, .	1.9	6
1381	Component-level re-commissioning of a newly retrofitted Danish healthcare building. Journal of Building Engineering, 2022, 51, 104277.	3.4	2
1382	Lithium-ion batteries investigation regarding different fins distribution associated electrochemical effects and various voltage types. Journal of Energy Storage, 2022, 51, 104383.	8.1	3
1383	Whole-building Energy Co-simulation for Dynamic Occupant-based Heating and Cooling Control with Rule-based and Q-learning Algorithms. , 2021, , .		0
1384	A Workflow For Data-Driven Fault Detection and Diagnosis In Buildings. , 2021, , .		0
1385	Operation strategy for engineered natural ventilation using machine learning under sparse data conditions. Japan Architectural Review, 2022, 5, 119-126.	1.1	1
1386	Developing machine-learning meta-models for high-rise residential district cooling in hot and humid climate. Journal of Building Performance Simulation, 2022, 15, 553-573.	2.0	6
1387	Thermal comfort modelling and empirical validation of predicted air temperature in hot-summer Mediterranean courtyards. Journal of Building Performance Simulation, 2022, 15, 39-61.	2.0	20

#	Article	IF	CITATIONS
1388	Open-Source Tool for Transforming CityGML Levels of Detail. Energies, 2021, 14, 8250.	3.1	6
1389	A Data-Driven Approach to Nation-Scale Building Energy Modeling. , 2021, , .		1
1390	Investigating the optimization potential of daylight, energy and occupant satisfaction performance in classrooms using innovative photovoltaic integrated light shelf systems. Science and Technology for the Built Environment, 0, , 1-16.	1.7	6
1391	The efficiency of hybrid ventilation on cooling energy savings in NZEBs. Journal of Building Engineering, 2022, 53, 104401.	3.4	3
1392	Application Of Intelligent Algorithms For Residential Building Energy Performance Rating Prediction. , 0, , .		0
1393	Building Energy Simulations at Urban Scale Based on Standardized Data Models Using a Transparent Enrichment Process. , 0, , .		1
1394	Design Guidance From A Data-Driven LCA-Based Design Method And Tool Prototype. , 0, , .		0
1396	Wash vehicle fleet sizing for contingency planning against dust storms. AIP Conference Proceedings, 2022, , .	0.4	1
1397	Multi-objective optimization of energy and daylighting performance of township street house in western Guangdong, China. , 2022, , .		0
1398	Room energy demand and thermal comfort predictions in early stages of design based on the Machine Learning methods. Intelligent Buildings International, 2023, 15, 3-20.	2.3	4
1399	Archetype Modeling Uncertainty and Bayesian Calibration for Campus-scale Analysis of Seoul National University Buildings Energy Use. KIEAE Journal, 2022, 22, 13-24.	0.3	0
1400	The predicted effect of climate change on indoor overheating of heritage apartments in two different Chinese climate zones. Indoor and Built Environment, 2022, 31, 1986-2006.	2.8	8
1401	Mapping the Potential of High-Reflective Roof Coverings in Residential Buildings in Italy. Sustainability, 2022, 14, 4969.	3.2	1
1402	Evaluation of the relative differences in building energy simulation results. Building Simulation, 2022, 15, 1977-1987.	5.6	7
1403	Surface Transfer Coefficients Estimation for Heat Conduction Problem Using the Bayesian Framework. Heat Transfer Engineering, 0, , 1-20.	1.9	0
1404	Adaptation of electrochromic glass into an airflow window system and its performance evaluation. Japan Architectural Review, 2022, 5, 235-246.	1.1	1
1405	Assessment of future overheating conditions in Canadian cities using a reference year selection method. Building and Environment, 2022, 218, 109102.	6.9	12
1406	Evaluation of environmental comfort in a social housing prototype with bioclimatic double-skin in a tropical climate. Building and Environment, 2022, 218, 109119.	6.9	6

		EPORT	
#	Article	IF	CITATIONS
1407	An Emergy-based Approach to Evaluate the Effectiveness of Integrating IoT-based Sensing Systems into Smart Buildings. Sustainable Energy Technologies and Assessments, 2022, 52, 102225.	2.7	11
1408	Effectiveness of neural networks and transfer learning for indoor air-temperature forecasting. Automation in Construction, 2022, 140, 104314.	9.8	9
1409	Cybersecurity Roadmap for Active Buildings. Green Energy and Technology, 2022, , 219-249.	0.6	2
1410	Development of Simplified Building Energy Prediction Model to Support Policymaking in South Korea—Case Study for Office Buildings. Sustainability, 2022, 14, 6000.	3.2	5
1411	Data-Driven Simulation of Room-Level Building Energy Consumption. , 2022, , .		0
1412	Using Regression Model to Develop Green Building Energy Simulation by BIM Tools. Sustainability, 2022, 14, 6262.	3.2	8
1413	A predictive control strategy for electrochromic glazing to balance the visual and thermal environmental requirements: Approach and energy-saving potential assessment. Renewable Energy, 2022, 194, 334-348.	8.9	6
1414	DeST 3.0: A new-generation building performance simulation platform. Building Simulation, 2022, 15, 1849-1868.	5.6	58
1415	Multi-objective optimisation of urban courtyard blocks in hot arid zones. Solar Energy, 2022, 240, 104-120.	6.1	17
1416	Regression tree ensemble learning-based prediction of the heating and cooling loads of residential buildings. Building Simulation, 2022, 15, 2003-2017.	5.6	16
1417	Optimizing daylight, energy and occupant comfort performance of classrooms with photovoltaic integrated vertical shading devices. Architectural Engineering and Design Management, 2023, 19, 394-418.	1.7	11
1418	End-to-End Deep Reinforcement Learning Control for HVAC Systems in Office Buildings. Designs, 2022, 6, 52.	2.4	5
1420	Safe HVAC Control via Batch Reinforcement Learning. , 2022, , .		8
1421	PowerGridworld. , 2022, , .		5
1422	Estimation of Unmeasured Room Temperature, Relative Humidity, and CO2 Concentrations for a Smart Building Using Machine Learning and Exploratory Data Analysis. Energies, 2022, 15, 4213.	3.1	6
1423	Real-Time Construction of Thermal Model Based on Multimodal Scene Data. Frontiers in Energy Research, 0, 10, .	2.3	0
1424	Regional adaptivity of electrochromic glazing in Japan and operational improvement in energy saving using machine learning. Japan Architectural Review, 0, , .	1.1	0
1425	Diversity for transfer in learning-based control of buildings. , 2022, , .		1

#	Article	IF	CITATIONS
1426	Energy-saving optimization based on residential building orientation and shape with multifactor coupling in the Tibetan areas of western Sichuan, China. Journal of Asian Architecture and Building Engineering, 2023, 22, 1476-1491.	2.0	6
1427	A prediction model to forecast passenger flow based on flight arrangement in airport terminals. Energy and Built Environment, 2023, 4, 680-688.	5.9	2
1428	Free and open source urbanism: Software for urban planning practice. Computers, Environment and Urban Systems, 2022, 96, 101825.	7.1	20
1429	Site demonstration and performance evaluation of MPC for a large chiller plant with TES for renewable energy integration and grid decarbonization. Applied Energy, 2022, 321, 119343.	10.1	23
1430	Graph convolutional networks-based method for estimating design loads of complex buildings in the preliminary design stage. Applied Energy, 2022, 322, 119478.	10.1	4
1431	Improving the passive survivability of residential buildings during extreme heat events in the Pacific Northwest. Applied Energy, 2022, 321, 119323.	10.1	8
1432	Simple Solutions for Improving the Nighttime Operative Temperatures of Huts in the Highlands of Peru. SSRN Electronic Journal, 0, , .	0.4	0
1433	基于边äºʿååŒçš"建çʿ胼zæºç³»ç»Ÿå^†åၞfå¼ä¾›éœ€ååŒä¼~化. Scientia Sinica Informationis, 2022, , .	0.4	1
1434	Multiobjective Optimization of Cement-Based Panels Enhanced with Microencapsulated Phase Change Materials for Building Energy Applications. Energies, 2022, 15, 5192.	3.1	3
1435	Design of thermo-chromic glazing windows considering energy consumption and visual comfort for cellular offices. Solar Energy, 2022, 241, 637-649.	6.1	12
1436	A framework for rapid diagnosis of natural ventilation effect during early design stage using Thermal Autonomy. International Journal of Green Energy, 2023, 20, 752-766.	3.8	0
1437	Optimal control method of HVAC based on multi-agent deep reinforcement learning. Energy and Buildings, 2022, 270, 112284.	6.7	29
1438	Effect of blind angles on thermal decay in the UFAD system in summer. Applied Thermal Engineering, 2022, 215, 118927.	6.0	3
1439	Learning indoor temperature predictions for optimal load ensemble control. Electric Power Systems Research, 2022, 211, 108384.	3.6	2
1440	Determining the summer indoor design parameters for pensioners' buildings based on the thermal requirements of elderly people at different ages. Energy, 2022, 258, 124854.	8.8	4
1441	Analysis of a low-temperature small approach open cooling tower integrated with radiant cooling and displacement ventilation for space conditioning in temperate climates. Advances in Building Energy Research, 2022, 16, 754-779.	2.3	0
1442	Seasonal thermal energy storage in smart energy systems: District-level applications and modelling approaches. Renewable and Sustainable Energy Reviews, 2022, 167, 112760.	16.4	37
1443	Fuzzy rule-based models for home energy consumption prediction. Energy Reports, 2022, 8, 9279-9289.	5.1	3

		CITATION REPORT		
#	Article		IF	CITATIONS
1444	Near-optimal Deep Reinforcement Learning Policies from Data for Zone Temperature C	Control. , 2022, , .		3
1445	The "teapot in a city― A paradigm shift in urban climate modeling. Science Advan	ces, 2022, 8, .	10.3	15
1446	Research on energy-saving factors adaptability of exterior envelopes of university teacl buildings under different climates (China) based on orthogonal design and EnergyPlus. 8, e10056.	hing-office . Heliyon, 2022,	3.2	11
1447	A rule-based data preprocessing framework for chiller rooms inspired by the analysis of big data. Energy and Buildings, 2022, 273, 112372.	fengineering	6.7	4
1448	Solar-Driven Sorption System for Seasonal Heat Storage under Optimal Control: Study Climatic Zones. Energies, 2022, 15, 5604.	<sup>,</sup> for Different	3.1	1
1449	Scalable Residential Building Geometry Characterisation Using Vehicle-Mounted Came Energies, 2022, 15, 6090.	ra System.	3.1	3
1450	Evaluation of Expanded Metal Mesh Applied on Building Facades with Regard to Daylig Consumption: A Case Study of an Office Building in Taiwan. Buildings, 2022, 12, 1187		3.1	4
1451	On-policy learning-based deep reinforcement learning assessment for building control stability. Science and Technology for the Built Environment, 2022, 28, 1150-1165.	efficiency and	1.7	3
1452	How can energy saving culture of a company influence energy behaviors and consump offices? A simulation and optimization model. Journal of Building Engineering, 2022, 58	rtions in its 8, 105011.	3.4	3
1453	On energy-efficient HVAC operation with Model Predictive Control: A multiple climate Applied Energy, 2022, 324, 119752.	zone study.	10.1	13
1454	Rapid quantification of demand response potential of building HAVC system via data-d Applied Energy, 2022, 325, 119796.	lriven model.	10.1	8
1455	Physically Consistent Neural Networks for building thermal modeling: Theory and analy Energy, 2022, 325, 119806.	vsis. Applied	10.1	35
1456	Urban heat mitigation through improved building energy efficiency. Energy and Climat 3, 100078.	e Change, 2022,	4.4	1
1457	The role of specific heat capacity on building energy performance and thermal discomf Studies in Construction Materials, 2022, 17, e01423.	ort. Case	1.7	2
1458	A novel approach of day-ahead cooling load prediction and optimal control for ice-base energy storage (TES) system in commercial buildings. Energy and Buildings, 2022, 275	ed thermal i, 112478.	6.7	25
1459	Stochastic simulation of occupant-driven energy use in a bottom-up residential buildin Applied Energy, 2022, 325, 119890.	g stock model.	10.1	12
1460	The impact of urban vegetation morphology on urban building energy consumption du and winter seasons in Nanjing, China. Landscape and Urban Planning, 2022, 228, 1045	uring summer 576.	7.5	19
1461	Using solar energy and phase change materials to supply energy to a building to reduc pollution. Journal of Building Engineering, 2022, 61, 105180.	e environmental	3.4	0

#	Article	IF	CITATIONS
1462	Extraction of key parameters and simplification of sub-system energy models using sensitivity analysis in subway stations. Energy, 2022, 261, 125285.	8.8	0
1463	Impacts Of Control Strategies On Light And Heavy Radiant Floors In Low Energy Buildings By Modelica Simulation. , 2013, , .		1
1464	An Optimization Procedure Based On Thermal Discomfort Minimization To Support The Design Of Comfortable Net Zero Energy Buildings. , 2013, , .		8
1465	Numerical Analysis of the Combination of Radiative Collectors and Emitters to Improve the Performance of Water-Water Compression Heat Pumps Under Different Climates. SSRN Electronic Journal, 0, , .	0.4	Ο
1466	Indoor Room Temperature and Relative Humidity Estimation in a Commercial Building Using the XGBoost Machine Learning Algorithm. , 2022, , .		0
1467	Validated open-source Modelica model of direct evaporative cooler with minimal inputs. Journal of Building Performance Simulation, 2022, 15, 757-770.	2.0	1
1468	A Period-Based Neural Network Algorithm for Predicting Building Energy Consumption of District Heating. Energies, 2022, 15, 6338.	3.1	0
1469	Integration of Renewable Energy Sources into Low-Temperature District Heating Systems: A Review. Energies, 2022, 15, 6523.	3.1	11
1470	Enhancing the Building's Energy Performance through Building Information Modelling—A Review. Lecture Notes in Civil Engineering, 2023, , 247-253.	0.4	1
1471	Dynamic Shading and Glazing Technologies: Improve Energy, Visual, and Thermal Performance. Energy and Built Environment, 2024, 5, 211-229.	5.9	3
1472	Simulation-Based Decision Support System for Energy Efficiency in Buildings Retrofitting. Sustainability, 2022, 14, 12216.	3.2	1
1473	Narrative modelling: A comparison of high and low mass dwelling solutions in Afghanistan and Peru. Building Services Engineering Research and Technology, 2023, 44, 5-24.	1.8	3
1474	A framework for obtaining a BIM-compatible design solution based on quantitative decisions on building performance. International Journal of Construction Management, 0, , 1-15.	3.2	0
1475	Estimating Space-Cooling Energy Consumption and Indoor PM2.5 Exposure across Hong Kong Using a City-Representative Housing Stock Model. Buildings, 2022, 12, 1414.	3.1	1
1476	Thermal performance assessment and control optimization of a solar-driven seasonal sorption storage system for residential application. Energy, 2023, 263, 125382.	8.8	13
1477	Significantly enhanced sub-ambient passive cooling enabled by evaporation, radiation, and insulation. Cell Reports Physical Science, 2022, 3, 101068.	5.6	7
1478	On the robustness of thermal comfort against uncertain future climate: A Bayesian bootstrap method. Building and Environment, 2022, 226, 109665.	6.9	2
1479	How can artificial intelligence impact sustainability: A systematic literature review. Journal of Cleaner Production, 2022, 376, 134120.	9.3	60

# 1480	ARTICLE Model predictive control in phase-change-material-wallboard-enhanced building energy management considering electricity price dynamics. Applied Energy, 2022, 326, 120023.	IF 10.1	CITATIONS
1481	Operational and embodied emissions associated with urban neighbourhood densification strategies. Energy and Buildings, 2022, 276, 112482.	6.7	1
1482	Enhancement of phase change material hysteresis model: A case study of modeling building envelope in EnergyPlus. Energy and Buildings, 2022, 276, 112511.	6.7	18
1483	CESAR-P: A dynamic urban building energy simulation tool. Journal of Open Source Software, 2022, 7, 4261.	4.6	9
1484	A Review of Data-Driven Approaches for Measurement and Verification Analysis of Building Energy Retrofits. Energies, 2022, 15, 7824.	3.1	5
1485	Data-driven prediction and optimization of residential building performance in Singapore considering the impact of climate change. Building and Environment, 2022, 226, 109735.	6.9	13
1486	A SCIENCE MAPPING APPROACH BASED REVIEW OF MODEL PREDICTIVE CONTROL FOR SMART BUILDING OPERATION MANAGEMENT. Journal of Civil Engineering and Management, 2022, 28, 661-679.	3.5	2
1487	Reducing the Operating Energy of Buildings in Arid Climates through an Adaptive Approach. Sustainability, 2022, 14, 13504.	3.2	4
1488	Energy Modeling and Model Predictive Control for HVAC in Buildings: A Review of Current Research Trends. Energies, 2022, 15, 7231.	3.1	13
1489	The Applicability of Biogeography-Based Optimization and Earthworm Optimization Algorithm Hybridized with ANFIS as Reliable Solutions in Estimation of Cooling Load in Buildings. Energies, 2022, 15, 7323.	3.1	5
1490	Climate Change Performance of nZEB Buildings. Buildings, 2022, 12, 1755.	3.1	5
1491	Query-adaptive training data recommendation for cross-building predictive modeling. Knowledge and Information Systems, 0, , .	3.2	0
1492	Improved calibration of building models using approximate Bayesian calibration and neural networks. Journal of Building Performance Simulation, 0, , 1-17.	2.0	2
1493	Science mapping the knowledge domain of energy performance research in the AEC industry: A scientometric analysis. Energy, 2023, 264, 125938.	8.8	5
1494	Potential passive cooling methods based on radiation controls in buildings. Energy Conversion and Management, 2022, 272, 116342.	9.2	17
1495	Investigation of convective heat transfer at the facade with balconies for a multi-story building. Journal of Building Engineering, 2023, 63, 105420.	3.4	1
1496	Heat transfer by natural convection and radiation in three dimensional differentially heated tall cavities. Case Studies in Thermal Engineering, 2022, 40, 102529.	5.7	1
1497	Operating cost comparison of state-of-the-art heat pumps in residential buildings across the United States. Energy and Buildings, 2022, 277, 112553.	6.7	8

# 1498	ARTICLE Dynamic optimization of chilled water pump operation to reduce HVAC energy consumption. Thermal Science and Engineering Progress, 2022, 36, 101512.	IF 2.7	CITATIONS 8
1499	Model predictive control for Demand- and Market-Responsive building energy management by leveraging active latent heat storage. Applied Energy, 2022, 327, 120054.	10.1	21
1500	Global sensitivity analysis and optimisation of design parameters for low GHG emission lifecycle of multifamily buildings in India. Energy and Buildings, 2022, 277, 112596.	6.7	7
1501	Simulation Speedup Techniques For Computationally Demanding Tasks. , 2013, , .		3
1502	Automatic Simulation And Carbon Analysis For Architecture Design. , 2013, , .		0
1503	Rapid Modeling Of Buildings With Calibrated Normative Models. , 2013, , .		0
1504	A Climate Performance Indicator For Analysis Of Low Energy Buildings. , 2013, , .		0
1505	Functional Mock-up Unit Import In Energyplus For Co-simulation. , 2013, , .		1
1506	Demand Response Optimisation Of All-electric Residential Buildings In A Dynamic Grid Environment: Irish Case Study. , 2013, , .		3
1507	An experimental study on round-trip efficiency of a preheating control with a medium office building. Energy and Buildings, 2023, 278, 112622.	6.7	2
1508	Simulation of Energy Use in UK Supermarkets using EnergyPlus. , 2015, , .		6
1509	Rethinking the TMY: is the †Typical' Meteorological Year Best for Building Performance Simulation?. , 2015, , .		17
1510	A New Method for the Optimal Chiller Sequencing Control. , 2015, , .		11
1511	The Use of Optimisation in the Calibration of Building Simulation Models. , 2015, , .		0
1512	Prototyping the Next Generation EnergyPlus Simulation Engine. , 2015, , .		10
1513	Capturing the Views of Architects About Building Performance Simulation to Be Used During Design Processes. , 2015, , .		3
1514	Optimising the Scheduled Operation of Window Blinds to Enhance Occupant Comfort. , 2015, , .		0
1515	Bringing Building Simulation to A Wider Audience – A Web Based Simulation And Optimisation System. , 2015, , .		0

#	Article	IF	Citations
1516	Grey-Box Modelling for Naturally Ventilated Buildings. , 2015, , .		0
1517	Adaptive Control of Data Center Cooling using Deep Reinforcement Learning. , 2022, , .		1
1518	How will United States commercial building energy use be impacted by IPCC climate scenarios?. Energy, 2023, 263, 125945.	8.8	9
1519	Teaching–Learning–Based Optimization (TLBO) in Hybridized with Fuzzy Inference System Estimating Heating Loads. Energies, 2022, 15, 8289.	3.1	1
1520	Impact of Dynamic Slab Insulation on Energy Performance of Residential Buildings. ASME Journal of Engineering for Sustainable Buildings and Cities, 0, , 1-33.	0.9	0
1521	Dynamic Simulations of High-Energy Performance Buildings: The Role of Climatic Data and the Consideration of Climate Change. Innovative Renewable Energy, 2023, , 135-164.	0.4	1
1522	A semantic ontology for representing and quantifying energy flexibility of buildings. Advances in Applied Energy, 2022, 8, 100113.	13.2	15
1523	Photovoltaic windows cut energy use and CO2 emissions by 40% in highly glazed buildings. One Earth, 2022, 5, 1271-1285.	6.8	12
1524	On the interoperability of Building Information Modeling for Energy Analysis: the case study of the Maritime Station of Napoli (Italy). IOP Conference Series: Earth and Environmental Science, 2022, 1106, 012001.	0.3	0
1525	Mining operation hours on time-series energy data to identify unnecessary building energy consumption. Journal of Building Engineering, 2023, 63, 105509.	3.4	3
1526	AlphaShed: A scalable load flexibility model for shedding potential in commercial HVAC systems. Energy and Buildings, 2023, 279, 112686.	6.7	2
1527	Concise Parameter Identification Method for 1C1R Gray-Box Model Using Thermal Balance Points Associated with Active Cooling/Heating. IFAC-PapersOnLine, 2022, 55, 463-468.	0.9	0
1528	Acceleration algorithms for long-wavelength radiation integral in the annual simulation of radiative cooling in buildings. Renewable Energy, 2023, 202, 255-269.	8.9	1
1529	Impact of urban form on building energy consumption and solar energy potential: A case study of residential blocks in Jianhu, China. Energy and Buildings, 2023, 280, 112727.	6.7	23
1530	Numerical analysis of the combination of radiative collectors and emitters to improve the performance of water-water compression heat pumps under different climates. Energy, 2023, 266, 126445.	8.8	0
1531	Numerical investigation of a CO2 cooling system connected to Spawn-of-energy-plus thermal zones. Applied Thermal Engineering, 2023, 222, 119908.	6.0	1
1532	Machine learning-based algorithms to estimate thermal dynamics of residential buildings with energy flexibility. Journal of Building Engineering, 2023, 65, 105683.	3.4	2
1533	An assessment of the potential effect of climate change on renewable hybrid heating and cooling systems. Journal of Building Engineering, 2023, 64, 105598.	3.4	0

#	Article	IF	Citations
1534	Experimental and simulation assessment of an adaptable cooling coil in the tropics. Journal of Building Engineering, 2023, 64, 105681.	3.4	0
1535	Demand Response in Smart Districts: Model Predictive Control of Building Cooling. , 2022, , .		1
1536	Notes paper. , 2022, , .		1
1537	On the use of conditional TimeGAN to enhance the robustness of a reinforcement learning agent in the building domain. , 2022, , .		1
1538	Reducio. , 2022, , .		4
1539	B2RL., 2022,,.		1
1540	Future typical meteorological year (fTMY) weather data and climate change impacts to Maricopa county, Arizona. , 2022, , .		1
1542	Occupancy of rooms in urban residential buildings by users in cold areas of China. Building Simulation, 2023, 16, 483-497.	5.6	2
1543	Defining archetypes of mixed-use developments using Google Maps API data. Environment and Planning B: Urban Analytics and City Science, 2023, 50, 1607-1623.	2.0	2
1544	A novel approach to develop climate classification based on degree days and building energy performance. Energy, 2023, 267, 126514.	8.8	6
1545	Role of temporary thermostat adjustments as a fast, low-cost measure in reducing energy imports. Environmental Research Communications, 2022, 4, 121007.	2.3	2
1546	Fifth-Generation District Heating and Cooling Networks Based on Shallow Geothermal Energy: A review and Possible Solutions for Mediterranean Europe. Energies, 2023, 16, 147.	3.1	6
1547	Numerical Analysis of Thermal Impact between the Cooling Facility and the Ground. Energies, 2022, 15, 9338.	3.1	1
1548	Energy-Saving Potential Comparison of Different Photovoltaic Integrated Shading Devices (PVSDs) for Single-Story and Multi-Story Buildings. Energies, 2022, 15, 9196.	3.1	11
1549	Multiple linear regression based model for the indoor temperature of mobile containers. Heliyon, 2022, 8, e12098.	3.2	8
1550	Research on Model Calibration Method of Chiller Plants Based on Error Reverse Correction with Limited Data. Energies, 2023, 16, 918.	3.1	0
1551	Climate change shifts the trade-of between lower cooling and higher heating demand from daylight saving time in office buildings. Environmental Research Letters, 2023, 18, 024001.	5.2	0
1552	Impact of Derived Features from the Controlled Environment Agriculture Scenarios on Energy Consumption Prediction Model. Buildings, 2023, 13, 250.	3.1	0

#	Article	IF	CITATIONS
1553	ESMUST: EnergyPlus-driven surrogate model for urban surface temperature prediction. Building and Environment, 2023, 229, 109935.	6.9	4
1554	Modelling infiltration rate impacts on indoor air quality. International Journal of Thermofluids, 2023, 17, 100284.	7.8	5
1555	Assessing thermal resilience of an assisted living facility during heat waves and cold snaps with power outages. Building and Environment, 2023, 230, 110001.	6.9	10
1556	A systematic review of building electricity use profile models. Energy and Buildings, 2023, 281, 112753.	6.7	7
1557	Examination of energy and visual comfort performance of thermo-chromic coatings for cellular offices. Energy, 2023, 267, 126517.	8.8	1
1558	Parametric and economic analysis of incorporating phase change material (PCM) into exterior walls to reduce energy demand for traditional dwellings in northeast of Sichuan hills, China. Applied Thermal Engineering, 2023, 223, 119982.	6.0	18
1559	Online transfer learning strategy for enhancing the scalability and deployment of deep reinforcement learning control in smart buildings. Applied Energy, 2023, 333, 120598.	10.1	16
1560	Impact of Extreme Weather on Sizing Battery Energy Storage Systems: A Case Study of Fairbanks, Alaska. , 2022, , .		1
1561	Ontologically streamlined data for building design and operation support. , 2023, , 447-474.		0
1562	Assessment of Building Energy Simulation Tools to Predict Heating and Cooling Energy Consumption at Early Design Stages. Sustainability, 2023, 15, 1920.	3.2	10
1563	An Advanced Fractional Order Method for Temperature Control. Fractal and Fractional, 2023, 7, 172.	3.3	2
1564	Multi-Agent Optimal Control for Central Chiller Plants Using Reinforcement Learning and Game Theory. Systems, 2023, 11, 136.	2.3	3
1565	Developing and tuning a community scale energy model for a disadvantaged community. Energy and Buildings, 2023, 285, 112861.	6.7	2
1566	System modeling for grid-interactive efficient building applications. Journal of Building Engineering, 2023, 69, 106148.	3.4	4
1567	Enhancing sustainability and resilience of elderly dwellings: Optimized refurbishing parameters and air conditioning operation. Energy and Buildings, 2023, 289, 113065.	6.7	3
1568	A detailed view of the Adaptive-Comfort-Control-Implementation Script (ACCIS): The capabilities of the automation system for adaptive setpoint temperatures in building energy models. Energy and Buildings, 2023, 288, 113019.	6.7	4
1569	Potential impact of work from home jobs on residential energy bills: A case study in phoenix, AZ, USA. Journal of Building Engineering, 2023, 68, 106063.	3.4	1
1570	Towards scalable physically consistent neural networks: An application to data-driven multi-zone thermal building models. Applied Energy, 2023, 340, 121071.	10.1	6

#	Article	IF	CITATIONS
1571	Data Reliability in BIM and Performance Analytics: A Survey of Contemporary AECO Practice. Journal of Architectural Engineering, 2023, 29, .	1.6	3
1572	How good are learning-based control v.s. model-based control for load shifting? Investigations on a single zone building energy system. Energy, 2023, 273, 127073.	8.8	7
1573	Method to elucidate the spatial–temporal characteristics of the intermittent heating demand of rural houses in northern China. Energy and Buildings, 2023, 288, 113008.	6.7	5
1574	Latest advancements and challenges of technologies and methods for accelerating the sustainable energy transition. Energy Reports, 2023, 9, 3343-3355.	5.1	8
1575	Thermal performance study of low-e glass Trombe wall assisted with the temperature-controlled ventilation system in Hot-Summer/Cold-Winter Zone of China. Case Studies in Thermal Engineering, 2023, 45, 102882.	5.7	8
1576	Dual-objective building retrofit optimization under competing priorities using Artificial Neural Network. Journal of Building Engineering, 2023, 70, 106376.	3.4	0
1577	Comfort in Design and Design Education. SpringerBriefs in Architectural Design and Technology, 2022, , 107-114.	0.3	0
1578	Optimizing the discharge process of a seasonal sorption storage system by means of design and control approach. Journal of Energy Storage, 2023, 60, 106652.	8.1	2
1579	Census-based urban building energy modeling to evaluate the effectiveness of retrofit programs. Environment and Planning B: Urban Analytics and City Science, 2023, 50, 2394-2406.	2.0	1
1580	Effect of ceiling fan in mitigating exposure to airborne pathogens and COVID-19. Indoor and Built Environment, 2023, 32, 1973-1999.	2.8	3
1581	Thermochromic Halide Perovskite Windows with Ideal Transition Temperatures. Advanced Energy Materials, 2023, 13, .	19.5	10
1582	Mitigating an adoption barrier of reinforcement learning-based control strategies in buildings. Energy and Buildings, 2023, 285, 112878.	6.7	4
1583	Multi-objective optimization of latent energy storage in buildings by using phase change materials with different melting temperatures. Applied Energy, 2023, 336, 120806.	10.1	5
1584	A multi-factor optimization method based on thermal comfort for building energy performance with natural ventilation. Energy and Buildings, 2023, 285, 112893.	6.7	12
1585	Organization and evolution of climate responsive strategies, used in Turpan vernacular buildings in arid region of China. Frontiers of Architectural Research, 2023, 12, 556-574.	2.8	4
1586	Energy analysis of the building integrated with a double PCM wallboard system in various climate regions of Iran. Journal of Thermal Analysis and Calorimetry, 2023, 148, 7981-7993.	3.6	3
1587	Comfort and Economic Viability of Personal Ceiling Fans Assisted by Night Ventilation in a Renovated Office Building. Buildings, 2023, 13, 589.	3.1	3
1588	Experimental Study of the Model Predictive Control for a Residential Split Air Conditioner. E-Prime, 2023, 3, 100099.	2.0	2

#	Article	IF	CITATIONS
1589	Experimental assessment and modeling of radiant cooling technology using constant and variable water flow rate. Science and Technology for the Built Environment, 0, , 1-14.	1.7	0
1590	Prediction of Energy Consumption in Residential Buildings Using Type-2 Fuzzy Wavelet Neural Network. Lecture Notes in Networks and Systems, 2023, , 338-345.	0.7	0
1591	Real-time predictive control of HVAC systems for factory building using lightweight data-driven model. Journal of Building Performance Simulation, 0, , 1-19.	2.0	0
1592	Numerical Simulation of Moisture Transport Along Ceramic Bricks—Wetting Process. Building Pathology and Rehabilitation, 2023, , 1-56.	0.2	0
1593	Investigating the Influence of Thermal Conductivity and Thermal Storage of Lightweight Concrete Panels on the Energy and Thermal Comfort in Residential Buildings. Buildings, 2023, 13, 720.	3.1	8
1594	A critical investigation of the readiness of VAV systems to adopt grid-interactive capabilities. Energy and Buildings, 2023, 286, 112974.	6.7	2
1595	Stilt houses in Southeastern and Northern European climate conditions. International Journal of Ventilation, 2024, 23, 75-90.	0.4	0
1596	An open-source framework for simulation-based testing of buildings control strategies. Journal of Building Performance Simulation, 2023, 16, 631-643.	2.0	1
1597	Evaluation of the Impact of Input-Data Resolution on Building-Energy Simulation Accuracy and Computational Load—A Case Study of a Low-Rise Office Building. Buildings, 2023, 13, 861.	3.1	1
1598	Digital twin for healthy indoor environment: A vision for the post-pandemic era. Frontiers of Engineering Management, 2023, 10, 300-318.	6.1	2
1599	On the effects of the mean radiant temperature evaluation in the assessment of thermal comfort by dynamic energy simulation tools. Building and Environment, 2023, 236, 110254.	6.9	3
1600	Influence of outdoor air pollution on European residential ventilative cooling potential. Energy and Buildings, 2023, 289, 113044.	6.7	4
1601	Potential Applications of Core-Shell Nanoparticles in Construction Industry Revisited. Applied Nano, 2023, 4, 75-114.	2.0	2
1602	Investigating the reliability of building energy models: Comparative analysis of the impact of data pipelines and model complexities. Journal of Building Engineering, 2023, 71, 106511.	3.4	4
1603	Geometry-based graphical methods for solar control in architecture: A digital framework. Frontiers of Architectural Research, 2023, , .	2.8	1
1604	Co-simulation for buildings and smart energy systems — A taxonomic review. Simulation Modelling Practice and Theory, 2023, 126, 102770.	3.8	5
1605	Thermal Loads Map and Overall Energy Analysis Depending on Low-Effort Parameters Change: A Commercial Building Case Study. Sustainability, 2023, 15, 6899.	3.2	0
1606	The impact of using a turbulator at the nanofluid flow inlet to cool a solar panel in the presence of phase change materials using artificial intelligence. Engineering Analysis With Boundary Elements, 2023, 152, 301-310.	3.7	1

#	Article	IF	CITATIONS
1607	Multi-Agent attention-based deep reinforcement learning for demand response in grid-responsive buildings. Applied Energy, 2023, 342, 121162.	10.1	8
1608	An ontology-based innovative energy modeling framework for scalable and adaptable building digital twins. Energy and Buildings, 2023, 292, 113146.	6.7	7
1609	Critical sky temperatures for passive radiative cooling. Renewable Energy, 2023, 211, 214-226.	8.9	6
1610	Long-Term Energy Forecasting System Based on LSTM and Deep Extreme Machine Learning. Intelligent Automation and Soft Computing, 2023, 37, 545-560.	2.1	4
1611	Thermal modeling of existing buildings in high-fidelity simulators: A novel, practical methodology. Energy and Buildings, 2023, 292, 113127.	6.7	3
1612	Simulation-based assessment of ASHRAE Guideline 36, considering energy performance, indoor air quality, and control stability. Building and Environment, 2023, 240, 110371.	6.9	2
1613	Effects of climate change on long-term building heating performance of medium-deep borehole heat exchanger coupled heat pump. Energy and Buildings, 2023, 293, 113208.	6.7	4
1614	Assessing the impact of employing machine learning-based baseline load prediction pipelines with sliding-window training scheme on offered flexibility estimation for different building categories. Energy and Buildings, 2023, 294, 113217.	6.7	5
1616	Assessing the impact of cybersecurity attacks on energy systems. Applied Energy, 2023, 345, 121297.	10.1	4
1617	A comprehensive generalizability assessment of data-driven Urban Heat Island (UHI) models. Sustainable Cities and Society, 2023, 96, 104701.	10.4	5
1618	On the cooling energy penalty of urban photovoltaics: a case study in Sydney, Australia. Energy and Buildings, 2023, 294, 113259.	6.7	4
1619	Stochastic scheduling for commercial building cooling systems: considering uncertainty in zone temperature prediction. Applied Energy, 2023, 346, 121367.	10.1	1
1620	Energy Saving Analysis of refrigeration room Group Control Based on Kernel Ridge Regression Algorithm. International Journal of Refrigeration, 2023, 153, 345-355.	3.4	1
1621	Forecast for the Future. Power Electronics and Power Systems, 2023, , 173-242.	0.6	0
1622	Temporal Variations Dataset for Indoor Environmental Parameters in Northern Saudi Arabia. Applied Sciences (Switzerland), 2023, 13, 7326.	2.5	2
1623	Predictive control optimization of chiller plants based on deep reinforcement learning. Journal of Building Engineering, 2023, 76, 107158.	3.4	3
1624	Thermal energy performance of compressed earth building in two different cities in Moroccan semi-arid climate. Energy and Built Environment, 2024, 5, 800-816.	5.9	3
1625	Effective pre-training of a deep reinforcement learning agent by means of long short-term memory models for thermal energy management in buildings. Energy Conversion and Management, 2023, 291, 117303.	9.2	4

#	Article	IF	CITATIONS
1626	Case Study: Impacts of Air-Conditioner Air Supply Strategy on Thermal Environment and Energy Consumption in Offices Using BES–CFD Co-Simulation. Sensors, 2023, 23, 5958.	3.8	3
1627	A parametric thermal analysis of refugees' shelters using incremental design and affordable construction material. Energy and Buildings, 2023, 290, 113110.	6.7	2
1628	Multi-Objective Optimization of Ultra-Low Energy Housing in Hot Summer Cold Winter Climate Zone of China Based on a Probabilistic Behavioral Model. Buildings, 2023, 13, 1172.	3.1	1
1629	Coincident design day application method for indoor design cooling load calculation under atypical exterior wall situations. Journal of Building Engineering, 2023, 72, 106639.	3.4	0
1630	Building thermal modeling and model predictive control with physically consistent deep learning for decarbonization and energy optimization. Applied Energy, 2023, 342, 121165.	10.1	12
1631	Building electrification and carbon emissions: Integrated energy management considering the dynamics of the electricity mix and pricing. Advances in Applied Energy, 2023, 10, 100141.	13.2	6
1632	BIM to BEM Transition for Optimizing Envelope Design Selection to Enhance Building Energy Efficiency and Cost-Effectiveness. Energies, 2023, 16, 3976.	3.1	3
1633	Cyber-Enabled Optimization of HVAC System Control in Open Space of Office Building. Sensors, 2023, 23, 4857.	3.8	1
1634	Comparative Thermal Performance Analysis of the RCC Envelope with a Low Thermal Transmittance (U-Value) Envelope. Green Energy and Technology, 2023, , 593-603.	0.6	0
1635	A labeled dataset for building HVAC systems operating in faulted and fault-free states. Scientific Data, 2023, 10, .	5.3	0
1636	Changes in Clay Hollow Block Geometry for Energy Efficiency Benefits—Thermal Simulation for Brazil. Buildings, 2023, 13, 1594.	3.1	0
1637	Barriers of large-scale energy efficiency modelling of urban building stocks. Methods to overcome them – the case of the Re-Polis platform IOP Conference Series: Earth and Environmental Science, 2023, 1196, 012025.	0.3	0
1638	Model Predictive Control for Distributed Energy Systems Management in Electrifying Buildings: carbon emission reduction in response to dynamic electricity price and carbon intensity. , 2023, , .		0
1639	A multi-objective optimization framework for designing urban block forms considering daylight, energy consumption, and photovoltaic energy potential. Building and Environment, 2023, 242, 110585.	6.9	9
1640	Design optimization of medium-deep borehole heat exchanger for building heating under climate change. Energy, 2023, 282, 128371.	8.8	0
1642	Machine-Learning-Based Prediction of HVAC-Driven Load Flexibility in Warehouses. Energies, 2023, 16, 5407.	3.1	1
1643	Impact of Urban Form at the Block Scale on Renewable Energy Application and Building Energy Efficiency. Sustainability, 2023, 15, 11062.	3.2	1
1644	Optimizing the use of natural ventilation while reducing energy cost_case study for retrofitting an old residential apartment in a Mediterranean city. Energy and Buildings, 2023, 296, 113371.	6.7	1

#	Article	IF	CITATIONS
1646	Integrating Urban Heat Island Impact into Building Energy Assessment in a Hot-Arid City. Buildings, 2023, 13, 1818.	3.1	0
1647	Urban microclimate and building energy models: A review of the latest progress in coupling strategies. Renewable and Sustainable Energy Reviews, 2023, 184, 113577.	16.4	7
1648	Comparative Study of Building Energy Simulation Software Applied to Research Projects. Cases of Study in Spain and Portugal. Lecture Notes in Civil Engineering, 2023, , 485-507.	0.4	0
1650	A toolchain to evaluate the impact of urban heat island and climate change on summer overheating at district level. Urban Climate, 2023, 51, 101602.	5.7	4
1651	Machine learning surrogate of physics-based building-stock simulator for end-use load forecasting. Energy and Buildings, 2023, 296, 113395.	6.7	1
1652	Long-term Hourly Cooling Load Forecasting through Combination of Global-domain and Sub-domain. , 2023, , .		0
1653	Direct and Inverse Neural Modelling of Buildings HVAC Systems. , 2023, , .		0
1654	Potential of form-pocketed design in mitigating heat in a university educational glazed-curtained building in the desert climate of UAE. Energy and Buildings, 2023, 297, 113424.	6.7	0
1655	Carbon emissions of 5G mobile networks in China. Nature Sustainability, 2023, 6, 1620-1631.	23.7	5
1656	Multi-objective optimization of window opening and thermostat control for enhanced indoor environment quality and energy efficiency in contrasting climates. Journal of Building Engineering, 2023, 78, 107617.	3.4	0
1657	Utilizing the Fanger thermal comfort model to evaluate the thermal, energy, economic, and environmental performance of PCM-integrated buildings in various climate zones worldwide. Energy and Buildings, 2023, 297, 113479.	6.7	1
1658	Advances in the Co-Simulation of Detailed Electrical and Whole-Building Energy Performance. Energies, 2023, 16, 6284.	3.1	0
1659	AixLib: an open-source Modelica library for compound building energy systems from component to district level with automated quality management. Journal of Building Performance Simulation, 2024, 17, 196-219.	2.0	1
1660	Model-Free HVAC Optimizer based on Reinforcement Learning. , 2023, , .		0
1661	Energy Saving Optimization of Commercial Complex Atrium Roof with Resilient Ventilation Using Machine Learning. Smart Cities, 2023, 6, 2367-2396.	9.4	0
1662	Modeling Approaches for Residential Energy Consumption: A Literature Review. Climate, 2023, 11, 184.	2.8	1
1663	Simple solutions for improving thermal comfort in huts in the highlands of Peru. Heliyon, 2023, 9, e19709.	3.2	0
1664	Toward the Scaling up of Daytime Radiative Coolers: A Review. Advanced Optical Materials, 2023, 11, .	7.3	2

#	Article	IF	CITATIONS
1665	Thermal Comfort in Urban Open Green Spaces: A Parametric Optimization Study in China's Cold Region. Buildings, 2023, 13, 2329.	3.1	0
1666	Health effects of PM2.5 emissions from woodstoves and fireplaces in living spaces. Journal of Building Engineering, 2023, 79, 107848.	3.4	2
1667	Risk of incorrect choices due to uncertainty in BPS evaluations of conceptual-stage neighbourhood-scale building designs. Journal of Building Performance Simulation, 2024, 17, 234-252.	2.0	0
1668	Harnessing climate variables for predicting PV power output: A backpropagation neural network analysis in a subtropical climate region. Solar Energy, 2023, 264, 111979.	6.1	1
1669	Energy flexibility of commercial buildings for demand response applications in Australia. Energy and Buildings, 2023, 300, 113533.	6.7	4
1670	Spawn: coupling Modelica Buildings Library and EnergyPlus to enable new energy system and control applications. Journal of Building Performance Simulation, 2024, 17, 274-292.	2.0	1
1671	Assessment of electricity consumption reduction potential for city-scale buildings under different demand response strategies. Energy and Buildings, 2023, 297, 113473.	6.7	1
1672	Development of sustainable heat resistive and storage panels for building envelope: An experimental and numerical study. Construction and Building Materials, 2023, 403, 133093.	7.2	3
1673	Exploring Decarbonization and Clean Energy Pathways for Disadvantaged Communities in California. Environmental Science and Engineering, 2023, , 2515-2525.	0.2	0
1674	On the Electrification of Winter Season in Cold Climate Megacities—The Case of New York City. ASME Journal of Engineering for Sustainable Buildings and Cities, 2023, 4, .	0.9	1
1675	Enhancing energy efficiency and thermal satisfaction in office buildings: A comprehensive evaluation of space match strategy. Energy and Buildings, 2023, 298, 113526.	6.7	0
1676	PePTM: An Efficient and Accurate Personalized P2P Learning Algorithm for Home Thermal Modeling. Energies, 2023, 16, 6594.	3.1	0
1677	Continually Learning Out-of-Distribution Spatiotemporal Data forÂRobust Energy Forecasting. Lecture Notes in Computer Science, 2023, , 3-19.	1.3	1
1678	Feasibility analysis of retrofitting existing residential towards the EnerPHit standard in HSCW zone: A case study in Guilin, China. Energy and Buildings, 2023, 298, 113554.	6.7	0
1679	Parameters/configurations adaptability and economic evaluation of PCM for reducing energy demands with lightweight buildings under different climates/cities based on orthogonal experiment and EnergyPlus: China-Japan comparison. Thermal Science and Engineering Progress, 2023, 45, 102143.	2.7	1
1680	Data-driven HVAC Control Using Symbolic Regression: Design and Implementation. , 2023, , .		0
1682	Combined Effects of Exterior Shading and A/C Heat Rejection on Building Energy Consumption and Indoor Air Pollution Exposure. Buildings, 2023, 13, 2440.	3.1	0
1683	Carbon neutrality pathways exploration-A state-of-the-art study: Key technological advancements, current challenges, and potential opportunities. Sustainable Energy Technologies and Assessments, 2023, 60, 103489.	2.7	0

ARTICLE IF CITATIONS The power of progressive active learning in floorplan images for energy assessment. Scientific 1684 3.3 0 Reports, 2023, 13, . An empirical model of a split-type inverter air conditioner for building energy simulation. Applied 1685 6.0 Thermal Engineering, 2024, 236, 121714. Acceleration of stateâ€"space method based on parallelization for enhancing building thermal process 1687 0 6.7 simulation efficiency. Energy and Buildings, 2023, 299, 113600. A review of validation methods for building energy modeling programs. Building Simulation, 0, , . 1688 Data Anonymization and Open Sharing Are Key to a Sustainable Built Environment., 2023, , 33-45. 1689 0 Ideal thermochromic smart window in a south-facing office room of China considering daylighting 1690 3.8 and energy performance. International Journal of Green Energy, 0, , 1-14. Evaluating solar-active shading solutions: a study of energy performance in Mediterranean 1691 1.7 0 residential architecture. Architectural Engineering and Design Management, 0, , 1-16. Influence and sensitivity evaluation of window thermal parameters variations on economic benefits of insulation materials for building exterior walls–a case study for traditional dwelling in China. 2.7 Thermal Science and Engineering Progress, 2023, 46, 102207. 1693 Lifecycle Analysis of Green Roofs in the Mediterranean Climate. Eng, 2023, 4, 2571-2581. 2.4 0 Building Performance under Untypical Weather Conditions: A 40-Year Study of Hong Kong. Buildings, 1694 3.1 2023, 13, 2587. Health Prognostics Classification with Autoencoders for Predictive Maintenance of HVAC Systems. 1695 0 3.1Energies, 2023, 16, 7094. Performance Evaluation of an Occupancy-Based HVAC Control System in an Office Building. Energies, 3.1 2023, 16, 7088. At the roots of the energy performance gap: Analysis of monitored indoor air before and after 1697 6.9 0 building retrofits. Building and Environment, 2023, 246, 110914. Impact of urban wind environment on urban building energy: A review of mechanisms and modeling. 1698 6.9 Building and Environment, 2023, , 110947. Energy performance of school roofing materials in hot and humid climates. Case Studies in 1699 0 1.7 Construction Materials, 2023, 19, e02586. Inverse Methods for Mechanistic Models., 2023, , 409-465. 1700 DıÅŸ duvara entegre edilen faz deÄŸiÅŸtiren malzemenin kalınlığı ve erime sıcaklığının bina enerji performansı ve 1701 CO2 emisyon azalımına etkisi. Journal of the Faculty of Engineering and Architecture of Gazi 0.8 0 University, 0, , . Rooftop unit comparison calculator: a framework for comparing performance of rooftop units with 1702 building energy simulation. Journal of Building Performance Simulation, 0, , 1-13.

#	Article	IF	CITATIONS
1703	Physically consistent deep learning-based day-ahead energy dispatching and thermal comfort control for grid-interactive communities. Applied Energy, 2024, 353, 122133.	10.1	1
1704	Assessment methodology for dynamic occupancy adaptive HVAC control in subway stations integrating passenger flow simulation into building energy modeling. Energy and Buildings, 2023, 300, 113667.	6.7	1
1705	Demand Response in Buildings: A Comprehensive Overview of Current Trends, Approaches, and Strategies. Buildings, 2023, 13, 2663.	3.1	1
1707	Multi-Objective Optimization for High-Performance Building Facade Design: A Systematic Literature Review. Sustainability, 2023, 15, 15596.	3.2	0
1708	An empirical review of methods to assess overheating in buildings in the context of changes to extreme heat events. Journal of Building Performance Simulation, 0, , 1-16.	2.0	0
1709	Influencing Factors on Air Conditioning Energy Consumption of Naturally Ventilated Research Buildings Based on Actual HVAC Behaviours. Buildings, 2023, 13, 2710.	3.1	0
1710	BIM to BEM for Building Energy Analysis: A Review of Interoperability Strategies. Energies, 2023, 16, 7845.	3.1	2
1711	Energy Policies and Standards. , 2023, , .		0
1712	Energy Management for Building-Integrated Microgrids Using Reinforcement Learning. , 2023, , .		0
1713	RECA: A Multi-Task Deep Reinforcement Learning-Based Recommender System for Co-Optimizing Energy, Comfort and Air Quality in Commercial Buildings. , 2023, , .		0
1714	Navigating Out-of-Distribution Electricity Load Forecasting during COVID-19: Benchmarking energy load forecasting models without and with continual learning. , 2023, , .		0
1715	Occupancy-based one-year-ahead heating, ventilation, and air-conditioning electricity consumption optimization using machine learning. Journal of Building Engineering, 2023, 80, 108051.	3.4	0
1716	Angle-selective thermal emitter for directional radiative cooling and heating. Joule, 2023, 7, 2830-2844.	24.0	2
1718	Efficient Horizontal Ground Heat Exchanger Simulation with Zone Heat Balance Integration. HVAC and R Research, 2013, 19, 307-323.	0.6	1
1719	Simultaneous solutions of coupled thermal airflow problem for natural ventilation in buildings. HVAC and R Research, 2012, 18, 264-274.	0.6	0
1720	Reinforcement Learning for Optimal HVAC Control: From Theory to Real-World Applications. , 2023, , .		0
1721	Decoupling awake and asleep thermal comfort: Impact on building design optimization. Journal of Building Engineering, 2024, 82, 108183.	3.4	0
1723	An evolutionary deep learning model based on EWKM, random forest algorithm, SSA and BiLSTM for building energy consumption prediction. Energy, 2024, 288, 129795.	8.8	2

#	Article	IF	CITATIONS
1724	A study of deep learning-based multi-horizon building energy forecasting. Energy and Buildings, 2024, 303, 113810.	6.7	1
1725	Exploring the potential of scaling up Smart Local Energy Systems to transform clusters of housing: Insights from a case study in Wales, UK. Journal of Physics: Conference Series, 2023, 2600, 022011.	0.4	0
1726	The use of synthesised data for the development of Digital Twin: Chalmers student house case study. Journal of Physics: Conference Series, 2023, 2600, 082008.	0.4	0
1727	Comfort, carbon emissions, and cost of building envelope and photovoltaic arrangement optimization through a two-stage model. Applied Energy, 2024, 356, 122423.	10.1	0
1728	Numerical humidity assessment: analysis of the thermal performance of a residential building. Ciência E Natura, 2023, 45, e74572.	0.0	0
1729	The Performance of Reinforcement Learning for Indoor Climate Control Devices according to the Level of Outdoor Air Particulate Matters. Buildings, 2023, 13, 3062.	3.1	0
1730	Incorporating users' adaptive behaviors into multi-objective optimization of shading devices: A case study of an office room in Qingdao. Energy and Buildings, 2023, 301, 113683.	6.7	1
1731	Synconn_build: A python based synthetic dataset generator for testing and validating control-oriented neural networks for building dynamics prediction. MethodsX, 2023, 11, 102464.	1.6	0
1732	Bias Correction in Urban Building Energy Modeling for Chicago Using Machine Learning. , 2023, , .		0
1733	Design optimization and closed-loop operational planning to achieve sustainability goals in buildings. Computers and Chemical Engineering, 2024, 181, 108519.	3.8	1
1734	Generalization of second law efficiency for next-generation cooling and dehumidification systems. Energy Conversion and Management, 2024, 300, 117972.	9.2	0
1735	Exploring building component thermal storage performance for optimizing indoor thermal environment – A case study in Beijing. Energy and Buildings, 2024, 304, 113834.	6.7	1
1736	Living laboratories can and should play a greater role to unlock flexibility in United States commercial buildings. Joule, 2023, , .	24.0	0
1737	European residential ventilation: Investigating the impact on health and energy demand. Energy and Buildings, 2024, 304, 113839.	6.7	0
1738	A novel approach based on equivalent sky radiative temperature for quick computation of radiative cooling in building energy simulation. Renewable Energy, 2024, 221, 119820.	8.9	0
1739	Utilizing weather forecast meteorological models for building energy simulations: A case study of a multi-unit residential complex. Energy and Buildings, 2024, 305, 113848.	6.7	0
1740	Evaluation and analysis of transmitted daylight color quality for different colored semi-transparent PV glazing. Renewable Energy, 2024, 222, 119826.	8.9	0
1741	Energy and cost savings of cool coatings for multifamily buildings in U.S. climate zones. Advances in Applied Energy, 2024, 13, 100159.	13.2	0

#	Article	IF	CITATIONS
1742	Environmental compatibility and economic feasibility of ground source heat pumps in tropical Asia regarding lifecycle aspects: A case study in Bangkok, Thailand. Renewable Energy, 2024, 223, 119896.	8.9	0
1743	Modeling the Effect of Green Roofs for Building Energy Savings and Air Pollution Reduction in Shanghai. Sustainability, 2024, 16, 286.	3.2	1
1744	Climate-Adaptive Building Envelope Controls: Assessing the Impact on Building Performance. Sustainability, 2024, 16, 288.	3.2	0
1745	Weather and climate data for energy applications. Renewable and Sustainable Energy Reviews, 2024, 192, 114247.	16.4	2
1746	Development and performance assessment of a new opensource Bayesian inference R platform for building energy model calibration. , 2023, 2, .		0
1747	Development of Building Design Optimization Methodology: Residential Building Applications. Buildings, 2024, 14, 107.	3.1	0
1748	Machine Learning for Smart and Energy-Efficient Buildings. , 2024, 3, .		0
1751	From White to Black-Box Models: A Review of Simulation Tools for Building Energy Management and Their Application in Consulting Practices. Energies, 2024, 17, 376.	3.1	1
1752	Modelling the impact of building energy consumption on urban thermal environment: The bias of the inventory approach. Urban Climate, 2024, 53, 101802.	5.7	0
1753	Avaliação do desempenho térmico de ambiente escolar padronizado, em contexto climático brasileiro, por meio de simulação termoenergética. PARC: Pesquisa Em Arquitetura E Construção, 0, 14, e023030.	0.3	0
1754	Levelized cost of charging of extreme fast charging with stationary LMO/LTO batteries. Journal of Energy Storage, 2024, 82, 110568.	8.1	0
1755	A comparison between grey-box models and neural networks for indoor air temperature prediction in buildings. Journal of Building Engineering, 2024, 84, 108583.	3.4	1
1756	Review on operation control of cold thermal energy storage in cooling systems. Energy and Built Environment, 2024, , .	5.9	0
1757	Double-Skin Facades for Thermal Comfort and Energy Efficiency in Mediterranean Climate Buildings: Rehabilitating Vulnerable Neighbourhoods. Buildings, 2024, 14, 326.	3.1	0
1758	Optimization of the Energy-Saving Building Envelopes in Regional Climate. Buildings, 2024, 14, 320.	3.1	0
1759	Influences of Heat Rejection from Split A/C Conditioners on Mixed-Mode Buildings: Energy Use and Indoor Air Pollution Exposure Analysis. Buildings, 2024, 14, 318.	3.1	0
1761	Evaluation of Residential Buildings Savings for Various Envelope Retrofits and Heating Energy Sources: A Simulation Study. Buildings, 2024, 14, 332.	3.1	0
1762	Appraisal of energy saving in green buildings, supported by BIM new platforms. Valori E Valutazioni, 2023, 34, 89-115.	1.0	0

#	Article	IF	CITATIONS
1763	Assessing effects of future climate change on outdoor thermal stress and building energy performance in severe cold region of China. Building and Environment, 2024, 251, 111236.	6.9	0
1764	Energy assessment of gasochromic smart windows for a high-rise apartment block in a temperate climate. Journal of Building Engineering, 2024, 84, 108625.	3.4	0
1765	Enhancing BIM-BEM integration: solutions for efficient data exchange and energy performance assessment. Architectural Engineering and Design Management, 0, , 1-28.	1.7	0
1766	Assessing energy, economic, environmental and social impacts of fostering energy efficiency technologies: a Portuguese case study. Environment, Development and Sustainability, 0, , .	5.0	0
1767	Climate change's effects on the amount of energy used for cooling in hot, humid office buildings and the solutions. Journal of Cleaner Production, 2024, 442, 140967.	9.3	1
1768	A Systematic Review of Passive Cooling Methods in Hot and Humid Climates Using a Text Mining-Based Bibliometric Approach. Sustainability, 2024, 16, 1420.	3.2	0
1769	Early energy performance analysis of smart buildings by consolidated artificial neural network paradigms. Heliyon, 2024, 10, e25848.	3.2	0
1770	Interpretable domain-informed and domain-agnostic features for supervised and unsupervised learning on building energy demand data. Applied Energy, 2024, 360, 122741.	10.1	1
1771	Comfort-aware Optimal Space Planning in Shared Workspaces. , 2024, , .		0
1772	An innovative heterogeneous transfer learning framework to enhance the scalability of deep reinforcement learning controllers in buildings with integrated energy systems. Building Simulation, 2024, 17, 739-770.	5.6	0
1773	Environmental performance driven optimization of urban modular housing layout in Singapore. Journal of Asian Architecture and Building Engineering, 0, , 1-14.	2.0	0
1774	Utilizing interpretable stacking ensemble learning and NSCA-III for the prediction and optimisation of building photo-thermal environment and energy consumption. Building Simulation, 2024, 17, 819-838.	5.6	0
1775	A New Dynamic and Vertical Photovoltaic Integrated Building Envelope for High-Rise Glaze-Facade Buildings. Engineering, 2024, , .	6.7	0
1776	Addressing building related energy burden, air pollution, and carbon emissions of a low-income community in Southern California. Advances in Applied Energy, 2024, 14, 100169.	13.2	0
1777	Balancing Sustainability and Comfort: A Holistic Study of Building Control Strategies That Meet the Global Standards for Efficiency and Thermal Comfort. Sustainability, 2024, 16, 2154.	3.2	0
1778	Modeling and optimization method for building energy performance in the design stage. Journal of Building Engineering, 2024, 87, 109019.	3.4	0
1779	Cost performance analysis of green chemical industrial buildings using blockchain-BIM. Journal of Asian Architecture and Building Engineering, 0, , 1-13.	2.0	0
1780	Optimized Design of a H2-Powered Moped for Urban Mobility. Energies, 2024, 17, 1314.	3.1	0

#	Article	IF	CITATIONS
1781	A Review of Cooling and Heating Loads Predictions of Residential Buildings Using Data-Driven Techniques. Buildings, 2024, 14, 752.	3.1	0
1782	Climate change induced heat stress impact on workplace productivity in a net zero-carbon timber building towards the end of the century. Building Simulation, 0, , .	5.6	0
1783	Assessment of Natural Ventilation Techniques by Means of Measurements and Retrospective CFD Simulation on a Test Building. Journal of Architectural Engineering, 2024, 30, .	1.6	0