

Arno Schlueter

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

81
papers

2,553
citations

27
h-index

49
g-index

87
ext. papers

3,183
ext. citations

7
avg, IF

6.04
L-index

#	Paper	IF	Citations
81	Building information model based energy/exergy performance assessment in early design stages. <i>Automation in Construction</i> , 2009 , 18, 153-163	9.6	334
80	Integrated model for characterization of spatiotemporal building energy consumption patterns in neighborhoods and city districts. <i>Applied Energy</i> , 2015 , 142, 247-265	10.7	167
79	Using machine learning techniques for occupancy-prediction-based cooling control in office buildings. <i>Applied Energy</i> , 2018 , 211, 1343-1358	10.7	143
78	City Energy Analyst (CEA): Integrated framework for analysis and optimization of building energy systems in neighborhoods and city districts. <i>Energy and Buildings</i> , 2016 , 113, 202-226	7	134
77	Automated daily pattern filtering of measured building performance data. <i>Automation in Construction</i> , 2015 , 49, 1-17	9.6	110
76	Occupant centered lighting control for comfort and energy efficient building operation. <i>Energy and Buildings</i> , 2015 , 94, 100-108	7	103
75	Reinforcement learning for optimal control of low exergy buildings. <i>Applied Energy</i> , 2015 , 156, 577-586	10.7	95
74	A review of unsupervised statistical learning and visual analytics techniques applied to performance analysis of non-residential buildings. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 81, 1365-1377	16.2	83
73	A review on occupant behavior in urban building energy models. <i>Energy and Buildings</i> , 2018 , 174, 276-297		79
72	Optimising building net energy demand with dynamic BIPV shading. <i>Applied Energy</i> , 2017 , 202, 726-735	10.7	74
71	The Adaptive Solar Facade: From concept to prototypes. <i>Frontiers of Architectural Research</i> , 2016 , 5, 143-156		67
70	Modeling occupant behavior in buildings. <i>Building and Environment</i> , 2020 , 174, 106768	6.5	56
69	Occupancy learning-based demand-driven cooling control for office spaces. <i>Building and Environment</i> , 2017 , 122, 145-160	6.5	51
68	Occupant centered lighting control: A user study on balancing comfort, acceptance, and energy consumption. <i>Energy and Buildings</i> , 2016 , 126, 310-322	7	48
67	A review of select human-building interfaces and their relationship to human behavior, energy use and occupant comfort. <i>Building and Environment</i> , 2020 , 178, 106920	6.5	44
66	A review of simulation-based urban form generation and optimization for energy-driven urban design. <i>Building and Environment</i> , 2017 , 121, 119-129	6.5	41
65	Balancing envelope and heating system parameters for zero emissions retrofit using building sensor data. <i>Applied Energy</i> , 2014 , 131, 56-66	10.7	38

64	Linking BIM and Design of Experiments to balance architectural and technical design factors for energy performance. <i>Automation in Construction</i> , 2018 , 86, 33-43	9.6	38
63	Life cycle assessment of dynamic building integrated photovoltaics. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 156, 75-82	6.4	36
62	Dynamic photovoltaic building envelopes for adaptive energy and comfort management. <i>Nature Energy</i> , 2019 , 4, 671-682	62.3	36
61	Temperature-preference learning with neural networks for occupant-centric building indoor climate controls. <i>Building and Environment</i> , 2019 , 154, 296-308	6.5	35
60	High-resolution, parametric BIPV and electrical systems modeling and design. <i>Applied Energy</i> , 2019 , 238, 164-179	10.7	33
59	Parametric analysis and systems design of dynamic photovoltaic shading modules. <i>Energy Science and Engineering</i> , 2016 , 4, 134-152	3.4	33
58	Unsupervised learning of energy signatures to identify the heating system and building type using smart meter data. <i>Applied Energy</i> , 2020 , 264, 114715	10.7	33
57	Automated metamodel generation for Design Space Exploration and decision-making [A novel method supporting performance-oriented building design and retrofitting. <i>Applied Energy</i> , 2014 , 119, 537-556	10.7	32
56	Application of clustering for the development of retrofit strategies for large building stocks. <i>Advanced Engineering Informatics</i> , 2017 , 31, 32-47	7.4	31
55	Coupling energy systems with lightweight structures for a net plus energy building. <i>Applied Energy</i> , 2017 , 189, 310-326	10.7	31
54	Urban and building multiscale co-simulation: case study implementations on two university campuses. <i>Journal of Building Performance Simulation</i> , 2018 , 11, 309-321	2.8	27
53	Multi-objective optimisation of building form, envelope and cooling system for improved building energy performance. <i>Automation in Construction</i> , 2018 , 94, 449-457	9.6	24
52	Coupled simulation of thermally active building systems to support a digital twin. <i>Energy and Buildings</i> , 2019 , 202, 109298	7	24
51	Review of data-driven energy modelling techniques for building retrofit. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 144, 110990	16.2	24
50	A reflective adaptive solar façade for multi-building energy and comfort management. <i>Energy and Buildings</i> , 2018 , 177, 303-315	7	23
49	Adaptive Distributed Robotics for Environmental Performance, Occupant Comfort and Architectural Expression. <i>International Journal of Architectural Computing</i> , 2012 , 10, 341-359	0.8	23
48	Do energy performance certificates allow reliable predictions of actual energy consumption and savings? Learning from the Swiss national database. <i>Energy and Buildings</i> , 2020 , 224, 110235	7	21
47	NEST HiLo: Investigating lightweight construction and adaptive energy systems. <i>Journal of Building Engineering</i> , 2017 , 12, 332-341	5.2	21

46	Methods for modelling and analysis of bendable photovoltaic modules on irregularly curved surfaces. <i>International Journal of Energy and Environmental Engineering</i> , 2016 , 7, 261-271	4	19
45	BubbleZERO Design, Construction and Operation of a Transportable Research Laboratory for Low Exergy Building System Evaluation in the Tropics. <i>Energies</i> , 2013 , 6, 4551-4571	3.1	18
44	Wireless sensor network for estimating building performance. <i>Automation in Construction</i> , 2020 , 111, 103043	9.6	17
43	Automated load disaggregation for residences with electrical resistance heating. <i>Energy and Buildings</i> , 2019 , 182, 61-74	7	17
42	Determining air-conditioning usage patterns in Singapore from distributed, portable sensors. <i>Energy Procedia</i> , 2017 , 122, 313-318	2.3	16
41	Context-specific urban occupancy modeling using location-based services data. <i>Building and Environment</i> , 2020 , 175, 106803	6.5	16
40	Hybrid AC/DC building microgrid for solar PV and battery storage integration 2017 ,		16
39	Performative design environment for kinetic photovoltaic architecture. <i>Automation in Construction</i> , 2018 , 93, 339-347	9.6	16
38	High efficiency low-lift vapour-compression chiller for high-temperature cooling applications in non-residential buildings in hot-humid climates. <i>Energy and Buildings</i> , 2019 , 187, 24-37	7	12
37	Novel approach for decentralized energy supply and energy storage of tall buildings in Latin America based on renewable energy sources: Case study Informal vertical community Torre David, Caracas Venezuela. <i>Energy</i> , 2013 , 53, 93-105	7.9	12
36	Impacts of diversity in commercial building occupancy profiles on district energy demand and supply. <i>Applied Energy</i> , 2020 , 277, 115594	10.7	12
35	A parametric method using vernacular urban block typologies for investigating interactions between solar energy use and urban design. <i>Renewable Energy</i> , 2021 , 165, 823-841	8.1	12
34	Comparing the indoor environmental quality of a displacement ventilation and passive chilled beam application to conventional air-conditioning in the Tropics. <i>Building and Environment</i> , 2018 , 130, 128-142	6.5	12
33	Sensitivity of Building Properties and Use Types for the Application of Adaptive Photovoltaic Shading Systems. <i>Energy Procedia</i> , 2017 , 122, 139-144	2.3	11
32	Defining density and land uses under energy performance targets at the early stage of urban planning processes. <i>Energy Procedia</i> , 2017 , 122, 301-306	2.3	11
31	A novel population-based occupancy modeling approach for district-scale simulations compared to standard-based methods. <i>Building and Environment</i> , 2020 , 181, 107084	6.5	11
30	Seasonal effects of input parameters in urban-scale building energy simulation. <i>Energy Procedia</i> , 2017 , 122, 433-438	2.3	10
29	Unsupervised load shape clustering for urban building performance assessment. <i>Energy Procedia</i> , 2017 , 122, 229-234	2.3	10

28	An Integrated Microclimate-Energy Demand Simulation Method for the Assessment of Urban Districts. <i>Frontiers in Built Environment</i> , 2020 , 6,	2.2	9
27	Effects of air infiltration modeling approaches in urban building energy demand forecasts. <i>Energy Procedia</i> , 2017 , 122, 283-288	2.3	8
26	Daily enthalpy gradients and the effects of climate change on the thermal energy demand of buildings in the United States. <i>Applied Energy</i> , 2020 , 262, 114458	10.7	8
25	An easily-deployable wireless sensor network for building energy performance assessment. <i>Energy Procedia</i> , 2017 , 122, 523-528	2.3	7
24	On Decentralized Air-conditioning for Hot and Humid Climates: Performance Characterization of a Small Capacity Dedicated Outdoor Air System with Built-in Sensible and Latent Energy Recovery Wheels. <i>Energy Procedia</i> , 2015 , 78, 3471-3476	2.3	7
23	Evaluation of low-lift sensible cooling in the tropics using calibrated simulation models and preliminary testing. <i>Energy Procedia</i> , 2017 , 122, 511-516	2.3	6
22	Ultra-thin and lightweight photovoltaic/thermal collectors for building integration. <i>Energy Procedia</i> , 2017 , 122, 409-414	2.3	6
21	Street grids for efficient district cooling systems in high-density cities. <i>Sustainable Cities and Society</i> , 2020 , 60, 102224	10.1	6
20	Identifying temporal properties of building components and indoor environment for building performance assessment. <i>Building and Environment</i> , 2020 , 168, 106506	6.5	6
19	SoRo-Track: A two-axis soft robotic platform for solar tracking and building-integrated photovoltaic applications 2016 ,		6
18	Identifying carbon emission reduction potentials of BIPV in high-density cities in Southeast Asia. <i>Journal of Physics: Conference Series</i> , 2019 , 1343, 012077	0.3	6
17	Analysis of Georeferenced Building Data for the Identification and Evaluation of Thermal Microgrids. <i>Proceedings of the IEEE</i> , 2016 , 104, 713-725	14.3	5
16	A machine learning-based framework for cost-optimal building retrofit. <i>Applied Energy</i> , 2021 , 294, 116990	10.7	5
15	A longitudinal analysis of energy consumption data from a high-performance building in the tropics. <i>Energy and Buildings</i> , 2020 , 224, 110230	7	4
14	Cost-optimal retrofit analysis for residential buildings. <i>Journal of Physics: Conference Series</i> , 2019 , 1343, 012030	0.3	4
13	Floor area density and land uses for efficient district cooling systems in high-density cities. <i>Sustainable Cities and Society</i> , 2021 , 65, 102601	10.1	4
12	The Impact of self-consumption regulation on individual and community solar PV adoption in Switzerland: an agent-based model. <i>Journal of Physics: Conference Series</i> , 2019 , 1343, 012143	0.3	3
11	Building Energy Performance Assessment Using an Easily Deployable Sensor Kit: Process, Risks, and Lessons Learned. <i>Frontiers in Built Environment</i> , 2021 , 6,	2.2	3

10	Soft Robotics for Architects: Integrating Soft Robotics Education in an Architectural Context. <i>Soft Robotics</i> , 2014 , 1, 147-153	9.2	2
9	Effects of Occupants and Local Air Temperatures as Sources of Stochastic Uncertainty in District Energy System Modeling. <i>Energies</i> , 2021 , 14, 2295	3.1	2
8	A framework for agile optimization of district energy systems. <i>Energy Procedia</i> , 2017 , 122, 223-228	2.3	1
7	Sustainable architecture and human comfort through adaptive distributed systems 2012 ,		1
6	Scenario-based robustness assessment of building system life cycle performance. <i>Applied Energy</i> , 2022 , 311, 118606	10.7	1
5	Comparing Metrics for Scenario-based Robustness Assessment of Building Performance. <i>Journal of Physics: Conference Series</i> , 2021 , 2042, 012150	0.3	0
4	A Cyber-Physical Middleware Platform for Buildings in Smart Cities 2019 , 645-652		0
3	Clustering and Fuzzy Reasoning as Data Mining Methods for the Development of Retrofit Strategies for Building Stocks 2017 , 437-472		
2	District-scale energy demand modeling and urban microclimate: A case study in The Netherlands. <i>Journal of Physics: Conference Series</i> , 2019 , 1343, 012003	0.3	
1	A novel design framework for solar thermal/electrical activation of building envelopes. <i>Journal of Physics: Conference Series</i> , 2019 , 1343, 012085	0.3	