

# Arno Schlueter

## List of Publications by Year in Descending Order

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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	Scenario-based robustness assessment of building system life cycle performance. <i>Applied Energy</i> , <b>2022</b> , 311, 118606	10.7	1
80	Comparing Metrics for Scenario-based Robustness Assessment of Building Performance. <i>Journal of Physics: Conference Series</i> , <b>2021</b> , 2042, 012150	0.3	0
79	Effects of Occupants and Local Air Temperatures as Sources of Stochastic Uncertainty in District Energy System Modeling. <i>Energies</i> , <b>2021</b> , 14, 2295	3.1	2
78	Review of data-driven energy modelling techniques for building retrofit. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 144, 110990	16.2	24
77	A parametric method using vernacular urban block typologies for investigating interactions between solar energy use and urban design. <i>Renewable Energy</i> , <b>2021</b> , 165, 823-841	8.1	12
76	Floor area density and land uses for efficient district cooling systems in high-density cities. <i>Sustainable Cities and Society</i> , <b>2021</b> , 65, 102601	10.1	4
75	Building Energy Performance Assessment Using an Easily Deployable Sensor Kit: Process, Risks, and Lessons Learned. <i>Frontiers in Built Environment</i> , <b>2021</b> , 6,	2.2	3
74	A machine learning-based framework for cost-optimal building retrofit. <i>Applied Energy</i> , <b>2021</b> , 294, 116990	10.7	5
73	Street grids for efficient district cooling systems in high-density cities. <i>Sustainable Cities and Society</i> , <b>2020</b> , 60, 102224	10.1	6
72	A review of select human-building interfaces and their relationship to human behavior, energy use and occupant comfort. <i>Building and Environment</i> , <b>2020</b> , 178, 106920	6.5	44
71	Do energy performance certificates allow reliable predictions of actual energy consumption and savings? Learning from the Swiss national database. <i>Energy and Buildings</i> , <b>2020</b> , 224, 110235	7	21
70	Context-specific urban occupancy modeling using location-based services data. <i>Building and Environment</i> , <b>2020</b> , 175, 106803	6.5	16
69	A longitudinal analysis of energy consumption data from a high-performance building in the tropics. <i>Energy and Buildings</i> , <b>2020</b> , 224, 110230	7	4
68	Modeling occupant behavior in buildings. <i>Building and Environment</i> , <b>2020</b> , 174, 106768	6.5	56
67	Daily enthalpy gradients and the effects of climate change on the thermal energy demand of buildings in the United States. <i>Applied Energy</i> , <b>2020</b> , 262, 114458	10.7	8
66	Identifying temporal properties of building components and indoor environment for building performance assessment. <i>Building and Environment</i> , <b>2020</b> , 168, 106506	6.5	6
65	Wireless sensor network for estimating building performance. <i>Automation in Construction</i> , <b>2020</b> , 111, 103043	9.6	17

64	An Integrated Microclimate-Energy Demand Simulation Method for the Assessment of Urban Districts. <i>Frontiers in Built Environment</i> , <b>2020</b> , 6,	2.2	9
63	Impacts of diversity in commercial building occupancy profiles on district energy demand and supply. <i>Applied Energy</i> , <b>2020</b> , 277, 115594	10.7	12
62	A novel population-based occupancy modeling approach for district-scale simulations compared to standard-based methods. <i>Building and Environment</i> , <b>2020</b> , 181, 107084	6.5	11
61	Unsupervised learning of energy signatures to identify the heating system and building type using smart meter data. <i>Applied Energy</i> , <b>2020</b> , 264, 114715	10.7	33
60	High-resolution, parametric BIPV and electrical systems modeling and design. <i>Applied Energy</i> , <b>2019</b> , 238, 164-179	10.7	33
59	Temperature-preference learning with neural networks for occupant-centric building indoor climate controls. <i>Building and Environment</i> , <b>2019</b> , 154, 296-308	6.5	35
58	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> , <b>2019</b> , 187, 24-37	7	12
57	Coupled simulation of thermally active building systems to support a digital twin. <i>Energy and Buildings</i> , <b>2019</b> , 202, 109298	7	24
56	Dynamic photovoltaic building envelopes for adaptive energy and comfort management. <i>Nature Energy</i> , <b>2019</b> , 4, 671-682	62.3	36
55	District-scale energy demand modeling and urban microclimate: A case study in The Netherlands. <i>Journal of Physics: Conference Series</i> , <b>2019</b> , 1343, 012003	0.3	
54	Cost-optimal retrofit analysis for residential buildings. <i>Journal of Physics: Conference Series</i> , <b>2019</b> , 1343, 012030	0.3	4
53	Identifying carbon emission reduction potentials of BIPV in high-density cities in Southeast Asia. <i>Journal of Physics: Conference Series</i> , <b>2019</b> , 1343, 012077	0.3	6
52	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> , <b>2019</b> , 1343, 012143	0.3	3
51	A novel design framework for solar thermal/electrical activation of building envelopes. <i>Journal of Physics: Conference Series</i> , <b>2019</b> , 1343, 012085	0.3	
50	Automated load disaggregation for residences with electrical resistance heating. <i>Energy and Buildings</i> , <b>2019</b> , 182, 61-74	7	17
49	A Cyber-Physical Middleware Platform for Buildings in Smart Cities <b>2019</b> , 645-652		0
48	Using machine learning techniques for occupancy-prediction-based cooling control in office buildings. <i>Applied Energy</i> , <b>2018</b> , 211, 1343-1358	10.7	143
47	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> , <b>2018</b> , 81, 1365-1377	16.2	83

46	A reflective adaptive solar façade for multi-building energy and comfort management. <i>Energy and Buildings</i> , <b>2018</b> , 177, 303-315	7	23
45	A review on occupant behavior in urban building energy models. <i>Energy and Buildings</i> , <b>2018</b> , 174, 276-292		79
44	Multi-objective optimisation of building form, envelope and cooling system for improved building energy performance. <i>Automation in Construction</i> , <b>2018</b> , 94, 449-457	9.6	24
43	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> , <b>2018</b> , 130, 128-142	6.5	12
42	Linking BIM and Design of Experiments to balance architectural and technical design factors for energy performance. <i>Automation in Construction</i> , <b>2018</b> , 86, 33-43	9.6	38
41	Urban and building multiscale co-simulation: case study implementations on two university campuses. <i>Journal of Building Performance Simulation</i> , <b>2018</b> , 11, 309-321	2.8	27
40	Performative design environment for kinetic photovoltaic architecture. <i>Automation in Construction</i> , <b>2018</b> , 93, 339-347	9.6	16
39	Application of clustering for the development of retrofit strategies for large building stocks. <i>Advanced Engineering Informatics</i> , <b>2017</b> , 31, 32-47	7.4	31
38	A review of simulation-based urban form generation and optimization for energy-driven urban design. <i>Building and Environment</i> , <b>2017</b> , 121, 119-129	6.5	41
37	Optimising building net energy demand with dynamic BIPV shading. <i>Applied Energy</i> , <b>2017</b> , 202, 726-735	10.7	74
36	Coupling energy systems with lightweight structures for a net plus energy building. <i>Applied Energy</i> , <b>2017</b> , 189, 310-326	10.7	31
35	Evaluation of low-lift sensible cooling in the tropics using calibrated simulation models and preliminary testing. <i>Energy Procedia</i> , <b>2017</b> , 122, 511-516	2.3	6
34	Sensitivity of Building Properties and Use Types for the Application of Adaptive Photovoltaic Shading Systems. <i>Energy Procedia</i> , <b>2017</b> , 122, 139-144	2.3	11
33	Effects of air infiltration modeling approaches in urban building energy demand forecasts. <i>Energy Procedia</i> , <b>2017</b> , 122, 283-288	2.3	8
32	Ultra-thin and lightweight photovoltaic/thermal collectors for building integration. <i>Energy Procedia</i> , <b>2017</b> , 122, 409-414	2.3	6
31	Seasonal effects of input parameters in urban-scale building energy simulation. <i>Energy Procedia</i> , <b>2017</b> , 122, 433-438	2.3	10
30	An easily-deployable wireless sensor network for building energy performance assessment. <i>Energy Procedia</i> , <b>2017</b> , 122, 523-528	2.3	7
29	Defining density and land uses under energy performance targets at the early stage of urban planning processes. <i>Energy Procedia</i> , <b>2017</b> , 122, 301-306	2.3	11

28	Determining air-conditioning usage patterns in Singapore from distributed, portable sensors. <i>Energy Procedia</i> , <b>2017</b> , 122, 313-318	2.3	16
27	A framework for agile optimization of district energy systems. <i>Energy Procedia</i> , <b>2017</b> , 122, 223-228	2.3	1
26	Unsupervised load shape clustering for urban building performance assessment. <i>Energy Procedia</i> , <b>2017</b> , 122, 229-234	2.3	10
25	Clustering and Fuzzy Reasoning as Data Mining Methods for the Development of Retrofit Strategies for Building Stocks <b>2017</b> , 437-472		
24	Hybrid AC/DC building microgrid for solar PV and battery storage integration <b>2017</b> ,		16
23	NEST HiLo: Investigating lightweight construction and adaptive energy systems. <i>Journal of Building Engineering</i> , <b>2017</b> , 12, 332-341	5.2	21
22	Occupancy learning-based demand-driven cooling control for office spaces. <i>Building and Environment</i> , <b>2017</b> , 122, 145-160	6.5	51
21	Methods for modelling and analysis of bendable photovoltaic modules on irregularly curved surfaces. <i>International Journal of Energy and Environmental Engineering</i> , <b>2016</b> , 7, 261-271	4	19
20	Life cycle assessment of dynamic building integrated photovoltaics. <i>Solar Energy Materials and Solar Cells</i> , <b>2016</b> , 156, 75-82	6.4	36
19	The Adaptive Solar Facade: From concept to prototypes. <i>Frontiers of Architectural Research</i> , <b>2016</b> , 5, 143-156	15.6	67
18	Analysis of Georeferenced Building Data for the Identification and Evaluation of Thermal Microgrids. <i>Proceedings of the IEEE</i> , <b>2016</b> , 104, 713-725	14.3	5
17	City Energy Analyst (CEA): Integrated framework for analysis and optimization of building energy systems in neighborhoods and city districts. <i>Energy and Buildings</i> , <b>2016</b> , 113, 202-226	7	134
16	SoRo-Track: A two-axis soft robotic platform for solar tracking and building-integrated photovoltaic applications <b>2016</b> ,		6
15	Occupant centered lighting control: A user study on balancing comfort, acceptance, and energy consumption. <i>Energy and Buildings</i> , <b>2016</b> , 126, 310-322	7	48
14	Parametric analysis and systems design of dynamic photovoltaic shading modules. <i>Energy Science and Engineering</i> , <b>2016</b> , 4, 134-152	3.4	33
13	Reinforcement learning for optimal control of low exergy buildings. <i>Applied Energy</i> , <b>2015</b> , 156, 577-586	10.7	95
12	Automated daily pattern filtering of measured building performance data. <i>Automation in Construction</i> , <b>2015</b> , 49, 1-17	9.6	110
11	Occupant centered lighting control for comfort and energy efficient building operation. <i>Energy and Buildings</i> , <b>2015</b> , 94, 100-108	7	103

10	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> , <b>2015</b> , 78, 3471-3476	2.3	7
9	Integrated model for characterization of spatiotemporal building energy consumption patterns in neighborhoods and city districts. <i>Applied Energy</i> , <b>2015</b> , 142, 247-265	10.7	167
8	Balancing envelope and heating system parameters for zero emissions retrofit using building sensor data. <i>Applied Energy</i> , <b>2014</b> , 131, 56-66	10.7	38
7	Automated metamodel generation for Design Space Exploration and decision-making [A novel method supporting performance-oriented building design and retrofitting. <i>Applied Energy</i> , <b>2014</b> , 119, 537-556	10.7	32
6	Soft Robotics for Architects: Integrating Soft Robotics Education in an Architectural Context. <i>Soft Robotics</i> , <b>2014</b> , 1, 147-153	9.2	2
5	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> , <b>2013</b> , 53, 93-105	7.9	12
4	BubbleZERO Design, Construction and Operation of a Transportable Research Laboratory for Low Exergy Building System Evaluation in the Tropics. <i>Energies</i> , <b>2013</b> , 6, 4551-4571	3.1	18
3	Sustainable architecture and human comfort through adaptive distributed systems <b>2012</b> ,		1
2	Adaptive Distributed Robotics for Environmental Performance, Occupant Comfort and Architectural Expression. <i>International Journal of Architectural Computing</i> , <b>2012</b> , 10, 341-359	0.8	23
1	Building information model based energy/exergy performance assessment in early design stages. <i>Automation in Construction</i> , <b>2009</b> , 18, 153-163	9.6	334