

Elie Azar

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.

64
papers

1,307
citations

21
h-index

35
g-index

76
ext. papers

1,690
ext. citations

6.4
avg, IF

5.43
L-index

#	Paper	IF	Citations
64	Economics of the Li-ion batteries and reversible fuel cells as energy storage systems when coupled with dynamic electricity pricing schemes. <i>Energy</i> , 2022 , 239, 121941	3.7	5
63	Techno-economic analysis of energy storage systems using reversible fuel cells and rechargeable batteries in green buildings. <i>Energy</i> , 2022 , 247, 123466	3.7	5
62	Ten questions concerning agent-based modeling of occupant behavior for energy and environmental performance of buildings. <i>Building and Environment</i> , 2022 , 217, 109016	2.7	3
61	Crossing borders and methods: Comparing individual and social influences on energy saving in the United Arab Emirates and Germany. <i>Energy Research and Social Science</i> , 2022 , 90, 102561	3.4	
60	A level-of-details framework for representing occupant behavior in agent-based models. <i>Automation in Construction</i> , 2022 , 139, 104290	4	1
59	A guideline to document occupant behavior models for advanced building controls. <i>Building and Environment</i> , 2022 , 219, 109195	2.7	1
58	Mathematical Model for the Placement of Hydrogen Refueling Stations to Support Future Fuel Cell Trucks. <i>IEEE Access</i> , 2021 , 1-1	1.3	1
57	The Role of Occupants in Buildings Energy Performance Gap: Myth or Reality?. <i>Sustainability</i> , 2021 , 13, 3146	1.4	14
56	Day-ahead prediction of plug-in loads using a long short-term memory neural network. <i>Energy and Buildings</i> , 2021 , 234, 110667	2.8	9
55	Exploring drivers of patient satisfaction using a random forest algorithm. <i>BMC Medical Informatics and Decision Making</i> , 2021 , 21, 157	1.2	6
54	Occupant behavior modeling methods for resilient building design, operation and policy at urban scale: A review. <i>Applied Energy</i> , 2021 , 293, 116856	4.8	12
53	Urban built context as a passive cooling strategy for buildings in hot climate. <i>Energy and Buildings</i> , 2021 , 231, 110606	2.8	4
52	Multi-objective Genetic Algorithm Optimization of HVAC Operation: Integrating Energy Consumption, Thermal Comfort, and Productivity. <i>Green Energy and Technology</i> , 2021 , 261-278	0.2	
51	Drivers of energy consumption in Kuwaiti buildings: Insights from a hybrid statistical and building performance simulation approach. <i>Energy Policy</i> , 2021 , 150, 112154	3.5	4
50	Multidomain Drivers of Occupant Comfort, Productivity, and Well-Being in Buildings: Insights from an Exploratory and Explanatory Analysis. <i>Journal of Management in Engineering - ASCE</i> , 2021 , 37, 04021020	1.7	0
49	Immersive virtual environments for occupant comfort and adaptive behavior research [A comprehensive review of tools and applications. <i>Building and Environment</i> , 2021 , 108396	2.7	5
48	A comprehensive assessment of Dubai's green building rating system: Al Sa'fat. <i>Energy Policy</i> , 2021 , 157, 112503	3.5	0

47	An international review of occupant-related aspects of building energy codes and standards. <i>Building and Environment</i> , 2020 , 179, 106906	2.7	38
46	A systematic review of occupant behavior in building energy policy. <i>Building and Environment</i> , 2020 , 175, 106807	2.7	50
45	Review of multi-domain approaches to indoor environmental perception and behaviour. <i>Building and Environment</i> , 2020 , 176, 106804	2.7	66
44	Multilayer thin film structures for multifunctional glass: Self-cleaning, antireflective and energy-saving properties. <i>Applied Energy</i> , 2020 , 264, 114697	4.8	40
43	Occupant-centric miscellaneous electric loads prediction in buildings using state-of-the-art deep learning methods. <i>Applied Energy</i> , 2020 , 269, 115135	4.8	19
42	Evaluating assumptions of scales for subjective assessment of thermal environments [Do laypersons perceive them the way, we researchers believe?]. <i>Energy and Buildings</i> , 2020 , 211, 109761	2.8	34
41	Effect of densification and compactness on urban building energy consumption: Case of a Transit-Oriented Development in Dallas, TX. <i>Sustainable Cities and Society</i> , 2020 , 56, 101987	4.4	10
40	Combining energy efficiency with self-cleaning properties in smart glass functionalized with multilayered semiconductors. <i>Journal of Cleaner Production</i> , 2020 , 272, 122830	4.3	3
39	Simulation-aided occupant-centric building design: A critical review of tools, methods, and applications. <i>Energy and Buildings</i> , 2020 , 224, 110292	2.8	22
38	A data-driven modeling and analysis approach to test the resilience of green buildings to uncertainty in operation patterns. <i>Energy Science and Engineering</i> , 2020 , 8, 4250-4269	1.4	2
37	Non-Intrusive Data Monitoring and Analysis of Occupant Energy-Use Behaviors in Shared Office Spaces. <i>IEEE Access</i> , 2020 , 8, 141246-141257	1.3	7
36	An applied framework to evaluate the impact of indoor office environmental factors on occupants' comfort and working conditions. <i>Sustainable Cities and Society</i> , 2019 , 46, 101447	4.4	35
35	Rethinking HVAC temperature setpoints in commercial buildings: The potential for zero-cost energy savings and comfort improvement in different climates. <i>Building and Environment</i> , 2019 , 155, 350-359	2.7	57
34	Combined photocatalytic properties and energy efficiency via multifunctional glass. <i>Journal of Environmental Chemical Engineering</i> , 2019 , 7, 102980	2.9	5
33	Evaluating the electricity saving potential of electrochromic glazing for cooling and lighting at the scale of the Swiss non-residential national building stock using a Monte Carlo model. <i>Energy</i> , 2019 , 185, 136-147	3.7	22
32	Smarter people, buildings, and cities: a multidisciplinary research approach 2019 , 139-150		
31	The Scales Project, a cross-national dataset on the interpretation of thermal perception scales. <i>Scientific Data</i> , 2019 , 6, 289	3.2	12
30	Mixing work and leisure? Energy conservation actions and spillovers between building occupants at work and at home in the UAE. <i>Energy Research and Social Science</i> , 2019 , 47, 215-223	3.4	7

29	Smart Cities in the Gulf: An Overview 2019 , 3-6		0
28	A data-driven analysis of building energy use with emphasis on operation and maintenance: A case study from the UAE. <i>Journal of Cleaner Production</i> , 2018 , 192, 169-178	4.3	33
27	Evaluation of tree-based ensemble learning algorithms for building energy performance estimation. <i>Journal of Building Performance Simulation</i> , 2018 , 11, 322-332	1	44
26	Impact of Human Actions on Building Energy Performance: A Case Study in the United Arab Emirates (UAE). <i>Sustainability</i> , 2018 , 10, 1404	1.4	11
25	Machine Learning as Surrogate to Building Performance Simulation: A Building Design Optimization Application. <i>Lecture Notes in Computer Science</i> , 2018 , 94-102	0.3	
24	Modeling and implementing human-based energy retrofits in a green building in desert climate. <i>Energy and Buildings</i> , 2018 , 173, 71-80	2.8	16
23	Framework to investigate energy conservation motivation and actions of building occupants: The case of a green campus in Abu Dhabi, UAE. <i>Applied Energy</i> , 2017 , 190, 563-573	4.8	41
22	Multilayer Agent-Based Modeling and Social Network Framework to Evaluate Energy Feedback Methods for Groups of Buildings. <i>Journal of Computing in Civil Engineering</i> , 2017 , 31, 04017007	2.5	22
21	Sustainability issues in the GCC 2017 , 3-6		2
20	Outlook towards the future of sustainability in the Gulf 2017 , 277-280		
19	Integrating building performance simulation in agent-based modeling using regression surrogate models: A novel human-in-the-loop energy modeling approach. <i>Energy and Buildings</i> , 2016 , 128, 214-223 ^{2.8}		45
18	Quantifying the impact of uncertainty in human actions on the energy performance of educational buildings 2016 ,		2
17	Optimizing the Performance of Energy-Intensive Commercial Buildings: Occupancy-Focused Data Collection and Analysis Approach. <i>Journal of Computing in Civil Engineering</i> , 2016 , 30,	2.5	14
16	Optimizing HVAC operation in commercial buildings: A genetic algorithm multi-objective optimization framework 2016 ,		9
15	Integrating and optimizing metrics of sustainable building performance using human-focused agent-based modeling. <i>Applied Energy</i> , 2016 , 183, 926-937	4.8	39
14	Evaluating the impact of extreme energy use behavior on occupancy interventions in commercial buildings. <i>Energy and Buildings</i> , 2015 , 97, 205-218	2.8	30
13	Framework to Evaluate Energy-Saving Potential from Occupancy Interventions in Typical Commercial Buildings in the United States. <i>Journal of Computing in Civil Engineering</i> , 2014 , 28, 63-78	2.5	34
12	Conceptual Framework to Optimize Building Energy Consumption by Coupling Distributed Energy Simulation and Occupancy Models. <i>Journal of Computing in Civil Engineering</i> , 2014 , 28, 50-62	2.5	22

11	A comprehensive framework to quantify energy savings potential from improved operations of commercial building stocks. <i>Energy Policy</i> , 2014 , 67, 459-472	3.5	71
10	Coupling Distributed Energy Simulation and Occupancy Models for Comprehensive Building Energy Consumption Analysis 2013 ,		2
9	A comprehensive analysis of the impact of occupancy parameters in energy simulation of office buildings. <i>Energy and Buildings</i> , 2012 , 55, 841-853	2.8	163
8	Agent-Based Modeling of Occupants and Their Impact on Energy Use in Commercial Buildings. <i>Journal of Computing in Civil Engineering</i> , 2012 , 26, 506-518	2.5	159
7	Recession Effects in United States Public Sector Construction Contracting: Focus on the American Recovery and Reinvestment Act of 2009. <i>Journal of Management in Engineering - ASCE</i> , 2012 , 28, 354-361 ^{1.7}		13
6	Sensitivity of Energy Simulation Models to Occupancy Related Parameters in Commercial Buildings 2012 ,		1
5	An Agent-Based Approach to Model the Effect of Occupants' Energy Use Characteristics in Commercial Buildings 2011 ,		10
4	A decision framework for energy use reduction initiatives in commercial buildings 2011 ,		7
3	A conceptual framework to energy estimation in buildings using agent based modeling 2010 ,		13
2	Design of MetalDielectric Multilayer Coatings for Energy-Efficient Building Glazing. <i>Energy Technology</i> ,2100776	1.2	
1	Sustainability in the Gulf		3