

# Salvatore Carlucci

## List of Publications by Year in Descending Order

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**Version:** 2024-04-26

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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.

67

papers

2,253

citations

22

h-index

47

g-index

73

ext. papers

2,804

ext. citations

5

avg, IF

5.57

L-index

#	Paper	IF	Citations
67	Solar Chimney Power Plants: A Review of the Concepts, Designs and Performances. <i>Sustainability</i> , <b>2022</b> , 14, 1450	3.6	2
66	Urban vulnerability in the EMME region and sustainable development goals: A new conceptual framework. <i>Sustainable Cities and Society</i> , <b>2022</b> , 80, 103763	10.1	1
65	A guideline to document occupant behavior models for advanced building controls. <i>Building and Environment</i> , <b>2022</b> , 219, 109195	6.5	1
64	Occupant behavior modeling methods for resilient building design, operation and policy at urban scale: A review. <i>Applied Energy</i> , <b>2021</b> , 293, 116856	10.7	12
63	The Implementation of Multiple Linear Regression for Swimming Pool Facilities: Case Study at JØ, Norway. <i>Energies</i> , <b>2021</b> , 14, 4825	3.1	1
62	Systematic and data-driven literature review of the energy and indoor environmental performance of swimming facilities. <i>Energy Efficiency</i> , <b>2021</b> , 14, 1	3	0
61	On the impact of stochastic modeling of occupant behavior on the energy use of office buildings. <i>Energy and Buildings</i> , <b>2021</b> , 246, 111049	7	7
60	Human thermal comfort under dynamic conditions: An experimental study. <i>Building and Environment</i> , <b>2021</b> , 204, 108144	6.5	5
59	Test rooms to study human comfort in buildings: A review of controlled experiments and facilities. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 149, 111359	16.2	7
58	ASHRAE Likelihood of Dissatisfaction: A new right-here and right-now thermal comfort index for assessing the Likelihood of dissatisfaction according to the ASHRAE adaptive comfort model. <i>Energy and Buildings</i> , <b>2021</b> , 250, 111286	7	2
57	Can CO sensors in the ventilation system of a pool facility help reduce the variability in the trihalomethane concentration observed in indoor air?. <i>Environment International</i> , <b>2020</b> , 138, 105665	12.9	3
56	Review of multi-domain approaches to indoor environmental perception and behaviour. <i>Building and Environment</i> , <b>2020</b> , 176, 106804	6.5	66
55	Modeling occupant behavior in buildings. <i>Building and Environment</i> , <b>2020</b> , 174, 106768	6.5	56
54	Comfort temperature and preferred adaptive behaviour in various classroom types in the UK higher learning environments. <i>Energy and Buildings</i> , <b>2020</b> , 211, 109814	7	14
53	Introducing IEA EBC annex 79: Key challenges and opportunities in the field of occupant-centric building design and operation. <i>Building and Environment</i> , <b>2020</b> , 178, 106738	6.5	62
52	Current practices and infrastructure for open data based research on occupant-centric design and operation of buildings. <i>Building and Environment</i> , <b>2020</b> , 177, 106848	6.5	13
51	Simulation-aided occupant-centric building design: A critical review of tools, methods, and applications. <i>Energy and Buildings</i> , <b>2020</b> , 224, 110292	7	22

50	Towards climate robust buildings: An innovative method for designing buildings with robust energy performance under climate change. <i>Energy and Buildings</i> , <b>2019</b> , 202, 109378	7	18
49	Impacts of future weather data typology on building energy performance – Investigating long-term patterns of climate change and extreme weather conditions. <i>Applied Energy</i> , <b>2019</b> , 238, 696-720	10.7	111
48	A data-driven procedure to model occupancy and occupant-related electric load profiles in residential buildings for energy simulation. <i>Energy and Buildings</i> , <b>2019</b> , 202, 109342	7	32
47	Energy use and perceived health in indoor swimming pool facilities. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 609, 042051	0.4	3
46	Robust and resilient buildings: A framework for defining the protection against climate uncertainty. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 609, 072068	0.4	4
45	Empirical validation and local sensitivity analysis of a lumped-parameter thermal model of an outdoor test cell. <i>Building and Environment</i> , <b>2018</b> , 130, 151-161	6.5	12
44	Review of adaptive thermal comfort models in built environmental regulatory documents. <i>Building and Environment</i> , <b>2018</b> , 137, 73-89	6.5	121
43	Development of the ASHRAE Global Thermal Comfort Database II. <i>Building and Environment</i> , <b>2018</b> , 142, 502-512	6.5	164
42	A holistic approach to assess the exploitation of renewable energy sources for design interventions in the early design phases. <i>Energy and Buildings</i> , <b>2018</b> , 175, 235-256	7	16
41	Challenges in the Modeling and Simulation of Green Buildings <b>2018</b> , 3-34		
40	Challenges in the Modeling and Simulation of Green Buildings <b>2018</b> , 1-33		
39	Occupancy and Occupants' Actions <b>2018</b> , 7-38		10
38	Assessing energy performance of smart cities. <i>Building Services Engineering Research and Technology</i> , <b>2018</b> , 39, 99-116	2.3	11
37	Data-driven occupant modeling strategies and digital tools enabled by IEA EBC annex 79 <b>2018</b> ,		1
36	The impact of design ventilation rates on the indoor air quality in residential buildings: An Italian case study. <i>Indoor and Built Environment</i> , <b>2017</b> , 26, 1397-1419	1.8	9
35	Sustainable Energy in Cities: Methodology and Results of a Summer Course Providing Smart Solutions for a New District in Shanghai. <i>Energy Procedia</i> , <b>2017</b> , 111, 856-866	2.3	2
34	An Exergy Analysis for Milano Smart City. <i>Energy Procedia</i> , <b>2017</b> , 111, 867-876	2.3	21
33	Boosting solar accessibility and potential of urban districts in the Nordic climate: A case study in Trondheim. <i>Solar Energy</i> , <b>2017</b> , 149, 347-369	6.8	39

32	On occupant-centric building performance metrics. <i>Building and Environment</i> , <b>2017</b> , 122, 373-385	6.5	59
31	The impact of climate change on the overheating risk in dwellings – A Dutch case study. <i>Building and Environment</i> , <b>2017</b> , 122, 307-323	6.5	74
30	International survey on current occupant modelling approaches in building performance simulation – Isabella Gaetani, Sara Gilani, and Salvatore Carlucci contributed equally to this work. View all notes. <i>Journal of Building Performance Simulation</i> , <b>2017</b> , 10, 653-671	2.8	36
29	Critical Analysis of Software Tools Aimed at Generating Future Weather Files with a view to their use in Building Performance Simulation. <i>Energy Procedia</i> , <b>2017</b> , 132, 640-645	2.3	22
28	An Analysis of the Most Adopted Rating Systems for Assessing the Environmental Impact of Buildings. <i>Sustainability</i> , <b>2017</b> , 9, 1226	3.6	95
27	Zero-Energy Living Lab. <i>Smart Innovation, Systems and Technologies</i> , <b>2017</b> , 1-35	0.5	2
26	A proposal of energy performance indicators for a reliable benchmark of swimming facilities. <i>Energy and Buildings</i> , <b>2016</b> , 129, 186-198	7	21
25	Energy retrofit for a climate resilient child care centre. <i>Energy and Buildings</i> , <b>2016</b> , 127, 1117-1132	7	29
24	The effect of spatial and temporal randomness of stochastically generated occupancy schedules on the energy performance of a multiresidential building. <i>Energy and Buildings</i> , <b>2016</b> , 127, 279-300	7	21
23	A Review of Systems and Technologies for Smart Homes and Smart Grids. <i>Energies</i> , <b>2016</b> , 9, 348	3.1	141
22	Energy Retrofit of a Day Care Center for Current and Future Weather Scenarios. <i>Procedia Engineering</i> , <b>2016</b> , 145, 1330-1337		5
21	Comfort considerations in Net ZEBs: theory and design <b>2015</b> , 75-106		2
20	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). <i>Energy and Buildings</i> , <b>2015</b> , 104, 378-394	7	134
19	Impact of different thermal comfort models on zero energy residential buildings in hot climate. <i>Energy and Buildings</i> , <b>2015</b> , 102, 117-128	7	86
18	A review of indices for assessing visual comfort with a view to their use in optimization processes to support building integrated design. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 47, 1016-1033	16.2	179
17	Building performance optimization of net zero-energy buildings <b>2015</b> , 175-206		7
16	Retrofit of a Kindergarten Targeting Zero Energy Balance. <i>Energy Procedia</i> , <b>2015</b> , 78, 991-996	2.3	6
15	Statistical analysis of the ranking capability of long-term thermal discomfort indices and their adoption in optimization processes to support building design. <i>Building and Environment</i> , <b>2014</b> , 75, 114-131	6.5	27

14	A Zero Energy Concept Building for the Mediterranean Climate. <i>Energy Procedia</i> , <b>2014</b> , 62, 280-288	2.3	25
13	Optimization of the Installation of an Earth-to-Air Heat Exchanger and Detailed Design of a Dedicated Experimental Set-Up. <i>Applied Mechanics and Materials</i> , <b>2014</b> , 501-504, 2158-2161	0.3	8
12	Assessing gaps and needs for integrating building performance optimization tools in net zero energy buildings design. <i>Energy and Buildings</i> , <b>2013</b> , 60, 110-124	7	253
11	Achieving the Net Zero Energy Target in Northern Italy: Lessons Learned from an Existing Passivhaus with Earth-to-Air Heat Exchanger. <i>Advanced Materials Research</i> , <b>2013</b> , 689, 184-187	0.5	8
10	Analysis of 85 Green Buildings within the GreenBuildingplus Project: A Basis for Supporting Energy Efficient Investments. <i>Advanced Materials Research</i> , <b>2013</b> , 689, 49-53	0.5	2
9	Optimization by Discomfort Minimization for Designing a Comfortable Net Zero Energy Building in the Mediterranean Climate. <i>Advanced Materials Research</i> , <b>2013</b> , 689, 44-48	0.5	22
8	Thermal Comfort Assessment of Buildings. <i>SpringerBriefs in Applied Sciences and Technology</i> , <b>2013</b> ,	0.4	19
7	A Review of Long-Term Discomfort Indices. <i>SpringerBriefs in Applied Sciences and Technology</i> , <b>2013</b> , 1-20	0.4	1
6	Comparison of the Ranking Capabilities of the Long-Term Discomfort Indices. <i>SpringerBriefs in Applied Sciences and Technology</i> , <b>2013</b> , 21-55	0.4	
5	The Long-Term Percentage of Dissatisfied. <i>SpringerBriefs in Applied Sciences and Technology</i> , <b>2013</b> , 81-99	0.4	
4	Gap Analysis of the Long-Term Discomfort Indices and a Harmonized Calculation Framework. <i>SpringerBriefs in Applied Sciences and Technology</i> , <b>2013</b> , 57-79	0.4	
3	A review of indices for the long-term evaluation of the general thermal comfort conditions in buildings. <i>Energy and Buildings</i> , <b>2012</b> , 53, 194-205	7	116
2	Net Zero Energy Buildings for Italy: How the Earth To Air Heat Exchanger Could Contribute to Reach the Target in Warm Climates <b>2010</b> ,		2
1	Energy affordability and trends of mortality in Cyprus. <i>International Journal of Sustainable Energy</i> , 1-20	2.7	