Salvatore Carlucci

List of Publications by Year
in descending order

67 papers	3,544 citations	218592 26 h-index	155592 55 g-index
73 all docs	73 docs citations	73 times ranked	2880 citing authors

#	ARTICLE	IF	CITATIONS
1	Assessing gaps and needs for integrating building performance optimization tools in net zero energy buildings design. Energy and Buildings, 2013, 60, 110-124.	3.1	309
2	Development of the ASHRAE Global Thermal Comfort Database II. Building and Environment, 2018, 142, 502-512.	3.0	279
3	A review of indices for assessing visual comfort with a view to their use in optimization processes to support building integrated design. Renewable and Sustainable Energy Reviews, 2015, 47, 1016-1033.	8.2	269
4	A Review of Systems and Technologies for Smart Homes and Smart Grids. Energies, 2016, 9, 348.	1.6	209
5	Impacts of future weather data typology on building energy performance â€" Investigating long-term patterns of climate change and extreme weather conditions. Applied Energy, 2019, 238, 696-720.	5.1	184
6	Review of adaptive thermal comfort models in built environmental regulatory documents. Building and Environment, 2018, 137, 73-89.	3.0	175
7	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.	3.1	170
8	A review of indices for the long-term evaluation of the general thermal comfort conditions in buildings. Energy and Buildings, 2012, 53, 194-205.	3.1	153
9	The impact of climate change on the overheating risk in dwellingsâ€"A Dutch case study. Building and Environment, 2017, 122, 307-323.	3.0	149
10	An Analysis of the Most Adopted Rating Systems for Assessing the Environmental Impact of Buildings. Sustainability, 2017, 9, 1226.	1.6	140
11	Introducing IEA EBC annex 79: Key challenges and opportunities in the field of occupant-centric building design and operation. Building and Environment, 2020, 178, 106738.	3.0	129
12	Review of multiâ€domain approaches to indoor environmental perception and behaviour. Building and Environment, 2020, 176, 106804.	3.0	127
13	Modeling occupant behavior in buildings. Building and Environment, 2020, 174, 106768.	3.0	123
14	Impact of different thermal comfort models on zero energy residential buildings in hot climate. Energy and Buildings, 2015, 102, 117-128.	3.1	105
15	On occupant-centric building performance metrics. Building and Environment, 2017, 122, 373-385.	3.0	80
16	Boosting solar accessibility and potential of urban districts in the Nordic climate: A case study in Trondheim. Solar Energy, 2017, 149, 347-369.	2.9	66
17	A data-driven procedure to model occupancy andÂoccupant-related electric load profiles in residential buildings for energy simulation. Energy and Buildings, 2019, 202, 109342.	3.1	58
18	Simulation-aided occupant-centric building design: A critical review of tools, methods, and applications. Energy and Buildings, 2020, 224, 110292.	3.1	56

#	Article	IF	Citations
19	International survey on current occupant modelling approaches in building performance simulation. Journal of Building Performance Simulation, 2017, 10, 653-671.	1.0	47
20	Occupant behavior modeling methods for resilient building design, operation and policy at urban scale: A review. Applied Energy, 2021, 293, 116856.	5.1	37
21	Energy retrofit for a climate resilient child care centre. Energy and Buildings, 2016, 127, 1117-1132.	3.1	36
22	Towards climate robust buildings: An innovative method for designing buildings with robust energy performance under climate change. Energy and Buildings, 2019, 202, 109378.	3.1	34
23	Test rooms to study human comfort in buildings: A review of controlled experiments and facilities. Renewable and Sustainable Energy Reviews, 2021, 149, 111359.	8.2	32
24	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.	3.0	31
25	A Global Building Occupant Behavior Database. Scientific Data, 2022, 9, .	2.4	31
26	Critical Analysis of Software Tools Aimed at Generating Future Weather Files with a view to their use in Building Performance Simulation. Energy Procedia, 2017, 132, 640-645.	1.8	30
27	Optimization by Discomfort Minimization for Designing a Comfortable Net Zero Energy Building in the Mediterranean Climate. Advanced Materials Research, 0, 689, 44-48.	0.3	26
28	A Zero Energy Concept Building for the Mediterranean Climate. Energy Procedia, 2014, 62, 280-288.	1.8	26
29	A proposal of energy performance indicators for a reliable benchmark of swimming facilities. Energy and Buildings, 2016, 129, 186-198.	3.1	26
30	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.	3.1	26
31	An Exergy Analysis for Milano Smart City. Energy Procedia, 2017, 111, 867-876.	1.8	26
32	Comfort temperature and preferred adaptive behaviour in various classroom types in the UK higher learning environments. Energy and Buildings, 2020, 211, 109814.	3.1	26
33	A holistic approach to assess the exploitation of renewable energy sources for design interventions in the early design phases. Energy and Buildings, 2018, 175, 235-256.	3.1	25
34	On the impact of stochastic modeling of occupant behavior on the energy use of office buildings. Energy and Buildings, 2021, 246, 111049.	3.1	24
35	Current practices and infrastructure for open data based research on occupant-centric design and operation of buildings. Building and Environment, 2020, 177, 106848.	3.0	23
36	Empirical validation and local sensitivity analysis of a lumped-parameter thermal model of an outdoor test cell. Building and Environment, 2018, 130, 151-161.	3.0	20

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37	Human thermal comfort under dynamic conditions: An experimental study. Building and Environment, 2021, 204, 108144.	3.0	17
38	Solar Chimney Power Plants: A Review of the Concepts, Designs and Performances. Sustainability, 2022, 14, 1450.	1.6	17
39	Assessing energy performance of smart cities. Building Services Engineering Research and Technology, 2018, 39, 99-116.	0.9	16
40	Occupancy and Occupants' Actions. , 2018, , 7-38.		16
41	A guideline to document occupant behavior models for advanced building controls. Building and Environment, 2022, 219, 109195.	3.0	15
42	Robust and resilient buildings: A framework for defining the protection against climate uncertainty. IOP Conference Series: Materials Science and Engineering, 2019, 609, 072068.	0.3	12
43	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. Energy and Buildings, 2021, 250, 111286.	3.1	12
44	Achieving the Net Zero Energy Target in Northern Italy: Lessons Learned from an Existing Passivhaus with Earth-to-Air Heat Exchanger. Advanced Materials Research, 0, 689, 184-187.	0.3	11
45	Urban vulnerability in the EMME region and sustainable development goals: A new conceptual framework. Sustainable Cities and Society, 2022, 80, 103763.	5.1	11
46	The impact of design ventilation rates on the indoor air quality in residential buildings: An Italian case study. Indoor and Built Environment, 2017, 26, 1397-1419.	1.5	10
47	Optimization of the Installation of an Earth-to-Air Heat Exchanger and Detailed Design of a Dedicated Experimental Set-Up. Applied Mechanics and Materials, 0, 501-504, 2158-2161.	0.2	9
48	Can CO_2 sensors in the ventilation system of a pool facility help reduce the variability in the trihalomethane concentration observed in indoor air?. Environment International, 2020, 138, 105665.	4.8	8
49	Retrofit of a Kindergarten Targeting Zero Energy Balance. Energy Procedia, 2015, 78, 991-996.	1.8	7
50	Energy Retrofit of a Day Care Center for Current and Future Weather Scenarios. Procedia Engineering, 2016, 145, 1330-1337.	1.2	6
51	Systematic and data-driven literature review of the energy and indoor environmental performance of swimming facilities. Energy Efficiency, 2021, 14, 1.	1.3	5
52	Analysis of 85 Green Buildings within the <i>GreenBuilding<sup>plus</sup></i> Project: A Basis for Supporting Energy Efficient Investments. Advanced Materials Research, 0, 689, 49-53.	0.3	3
53	Sustainable Energy in Cities: Methodology and Results of a Summer Course Providing Smart Solutions for a New District in Shanghai. Energy Procedia, 2017, 111, 856-866.	1.8	3
54	Energy use and perceived health in indoor swimming pool facilities. IOP Conference Series: Materials Science and Engineering, 2019, 609, 042051.	0.3	3

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55	Documenting occupant models for building performance simulation: a state-of-the-art. Journal of Building Performance Simulation, 2022, 15, 634-655.	1.0	3
56	The Implementation of Multiple Linear Regression for Swimming Pool Facilities: Case Study at JÃ¸a, Norway. Energies, 2021, 14, 4825.	1.6	2
57	Net Zero Energy Buildings for Italy: How the Earth To Air Heat Exchanger Could Contribute to Reach the Target in Warm Climates. , 2010, , .		2
58	Pattern Recognition And Classification For Electrical Energy Use In Residential Buildings. , 0, , .		2
59	Adaptation of Users to Future Climate Conditions in Naturally Ventilated Historic Buildings: Effects on Indoor Comfort. Energies, 2022, 15, 4984.	1.6	2
60	Data-driven occupant modeling strategies and digital tools enabled by IEA EBC annex 79. , 2018, , .		1
61	A Review of Long-Term Discomfort Indices. SpringerBriefs in Applied Sciences and Technology, 2013, , 1-20.	0.2	1
62	Energy affordability and trends of mortality in Cyprus. International Journal of Sustainable Energy, 2022, 41, 1303-1322.	1.3	1
63	Challenges in the Modeling and Simulation of Green Buildings. , 2018, , 3-34.		0
64	Comparison of the Ranking Capabilities of the Long-Term Discomfort Indices. SpringerBriefs in Applied Sciences and Technology, 2013, , 21-55.	0.2	0
65	Gap Analysis of the Long-Term Discomfort Indices and a Harmonized Calculation Framework. SpringerBriefs in Applied Sciences and Technology, 2013, , 57-79.	0.2	0
66	Challenges in the Modeling and Simulation of Green Buildings. , 2018, , 1-33.		0
67	The 1st ACM international workshop on big data and machine learning for smart buildings and cities. , 2021, , .		0