

Marcel Schweiker

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

2,680
citations

186209

28
h-index

189801

50
g-index

71
all docs

71
docs citations

71
times ranked

1657
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of the ASHRAE Global Thermal Comfort Database II. <i>Building and Environment</i> , 2018, 142, 502-512.	3.0	279
2	Comparison of theoretical and statistical models of air-conditioning-unit usage behaviour in a residential setting under Japanese climatic conditions. <i>Building and Environment</i> , 2009, 44, 2137-2149.	3.0	138
3	Verification of stochastic models of window opening behaviour for residential buildings. <i>Journal of Building Performance Simulation</i> , 2012, 5, 55-74.	1.0	138
4	Introducing IEA EBC annex 79: Key challenges and opportunities in the field of occupant-centric building design and operation. <i>Building and Environment</i> , 2020, 178, 106738.	3.0	129
5	Review of multi-domain approaches to indoor environmental perception and behaviour. <i>Building and Environment</i> , 2020, 176, 106804.	3.0	127
6	Drivers of diversity in human thermal perception – A review for holistic comfort models. <i>Temperature</i> , 2018, 5, 308-342.	1.6	110
7	Does the occupant behavior match the energy concept of the building? – Analysis of a German naturally ventilated office building. <i>Building and Environment</i> , 2015, 84, 142-150.	3.0	107
8	Challenging the assumptions for thermal sensation scales. <i>Building Research and Information</i> , 2017, 45, 572-589.	2.0	103
9	The effect of occupancy on perceived control, neutral temperature, and behavioral patterns. <i>Energy and Buildings</i> , 2016, 117, 246-259.	3.1	98
10	Personal comfort systems: A review on comfort, energy, and economics. <i>Energy and Buildings</i> , 2020, 214, 109858.	3.1	92
11	A framework for an adaptive thermal heat balance model (ATHB). <i>Building and Environment</i> , 2015, 94, 252-262.	3.0	89
12	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.	3.0	79
13	What drives our behaviors in buildings? A review on occupant interactions with building systems from the lens of behavioral theories. <i>Building and Environment</i> , 2020, 179, 106928.	3.0	73
14	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.	3.1	68
15	Evolution and performance analysis of adaptive thermal comfort models – A comprehensive literature review. <i>Building and Environment</i> , 2022, 217, 109020.	3.0	61
16	Comparative effects of building envelope improvements and occupant behavioural changes on the energy consumption for heating and cooling. <i>Energy Policy</i> , 2010, 38, 2976-2986.	4.2	55
17	Development and validation of a methodology to challenge the adaptive comfort model. <i>Building and Environment</i> , 2012, 49, 336-347.	3.0	50
18	On uses of energy in buildings: Extracting influencing factors of occupant behaviour by means of a questionnaire survey. <i>Energy and Buildings</i> , 2018, 168, 298-308.	3.1	50

#	ARTICLE	IF	CITATIONS
19	The Role of Occupants in Buildingsâ€™ Energy Performance Gap: Myth or Reality?. Sustainability, 2021, 13, 3146.	1.6	46
20	Short- and long-term acclimatization in outdoor spaces: Exposure time, seasonal and heatwave adaptation effects. Building and Environment, 2017, 116, 17-29.	3.0	43
21	The influence of personality traits on occupant behavioural patterns. Energy and Buildings, 2016, 131, 63-75.	3.1	39
22	Adaptive comfort from the viewpoint of human body exergy consumption. Building and Environment, 2012, 51, 351-360.	3.0	36
23	Thermal expectation: Influencing factors and its effect on thermal perception. Energy and Buildings, 2020, 210, 109729.	3.1	36
24	Thermo-specific self-efficacy (specSE) in relation to perceived comfort and control. Building and Environment, 2016, 102, 193-206.	3.0	32
25	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
26	A framework for adopting adaptive thermal comfort principles in design and operation of buildings. Energy and Buildings, 2019, 205, 109476.	3.1	31
27	Personalized ceiling fans: Effects of air motion, air direction and personal control on thermal comfort. Energy and Buildings, 2021, 235, 110721.	3.1	31
28	Explaining the individual processes leading to adaptive comfort: Exploring physiological, behavioural and psychological reactions to thermal stimuli. Journal of Building Physics, 2013, 36, 438-463.	1.2	30
29	A seasonal approach to alliesthesia. Is there a conflict with thermal adaptation?. Energy and Buildings, 2020, 212, 109745.	3.1	30
30	Immersive virtual environments for occupant comfort and adaptive behavior research â€“ A comprehensive review of tools and applications. Building and Environment, 2022, 207, 108396.	3.0	26
31	comf: An R Package for Thermal Comfort Studies. R Journal, 2016, 8, 341.	0.7	25
32	Adaptive thermal comfort model based on field studies in five climate zones across India. Building and Environment, 2022, 219, 109187.	3.0	22
33	Ten questions concerning the potential of digital production and new technologies for contemporary earthen constructions. Building and Environment, 2021, 206, 108240.	3.0	21
34	Influences on the predictive performance of thermal sensation indices. Building Research and Information, 2017, 45, 745-758.	2.0	20
35	Exploring internal body heat balance to understand thermal sensation. Building Research and Information, 2017, 45, 808-818.	2.0	19
36	The Scales Project, a cross-national dataset on the interpretation of thermal perception scales. Scientific Data, 2019, 6, 289.	2.4	19

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37	Unsteady-state human-body exergy consumption rate and its relation to subjective assessment of dynamic thermal environments. <i>Energy and Buildings</i> , 2016, 116, 164-180.	3.1	17
38	Comfort-related feedforward information: occupants' choice of cooling strategy and perceived comfort. <i>Building Research and Information</i> , 2017, 45, 222-238.	2.0	17
39	Long-term monitoring data from a naturally ventilated office building. <i>Scientific Data</i> , 2019, 6, 293.	2.4	17
40	Necessary Conditions for Multi-Domain Indoor Environmental Quality Standards. <i>Sustainability</i> , 2020, 12, 8439.	1.6	16
41	Occupancy and Occupants' Actions. , 2018, , 7-38.		16
42	Investigation on the effectiveness of various methods of information dissemination aiming at a change of occupant behaviour related to thermal comfort and exergy consumption. <i>Energy Policy</i> , 2011, 39, 395-407.	4.2	15
43	Understanding Occupants' Behaviour for Energy Efficiency in Buildings. <i>Current Sustainable/Renewable Energy Reports</i> , 2017, 4, 8-14.	1.2	15
44	Numerical evaluation of thermal comfort using a large eddy lattice Boltzmann method. <i>Building and Environment</i> , 2021, 192, 107618.	3.0	15
45	Does thermal control improve visual satisfaction? Interactions between occupants' self-perceived control, visual, thermal, and overall satisfaction. <i>Indoor Air</i> , 2021, 31, 2329-2349.	2.0	15
46	Subgroups holding different conceptions of scales rate room temperatures differently. <i>Building and Environment</i> , 2018, 128, 236-247.	3.0	13
47	Seeing is believing: an innovative approach to post-occupancy evaluation. <i>Energy Efficiency</i> , 2020, 13, 473-486.	1.3	12
48	Get the picture? Lessons learned from a smartphone-based post-occupancy evaluation. <i>Energy Research and Social Science</i> , 2019, 56, 101224.	3.0	11
49	Assessing comfort in the workplace: A unified theory of behavioral and thermal expectations. <i>Building and Environment</i> , 2022, 216, 109015.	3.0	11
50	Experimental Evaluation of Radiant Heating Ceiling Systems Based on Thermal Comfort Criteria. <i>Energies</i> , 2018, 11, 2932.	1.6	10
51	Extreme events, energy security and equality through micro- and macro-levels: Concepts, challenges and methods. <i>Energy Research and Social Science</i> , 2022, 85, 102401.	3.0	10
52	INVESTIGATION ON THE RELATIONSHIP BETWEEN OCCUPANTS' INDIVIDUAL DIFFERENCE AND AIR-CONDITIONING USAGE DURING NIGHTTIME IN SUMMER. <i>Journal of Environmental Engineering (Japan)</i> , 2008, 73, 1275-1282.	0.1	9
53	What does "moderate pain" mean? Subgroups holding different conceptions of rating scales evaluate experimental pain differently. <i>European Journal of Pain</i> , 2020, 24, 625-638.	1.4	9
54	Combining adaptive and heat balance models for thermal sensation prediction: A new approach towards a theory and data-driven adaptive thermal heat balance model. <i>Indoor Air</i> , 2022, 32, e13018.	2.0	9

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55	Study on the effect of preference of air-conditioning usage on the exergy consumption pattern within a built environment. <i>International Journal of Exergy</i> , 2012, 11, 409.	0.2	7
56	Evaluating the performance of thermal sensation prediction with a biophysical model. <i>Indoor Air</i> , 2017, 27, 1012-1021.	2.0	7
57	Insights into the effects of occupant behaviour lifestyles and building automation on building energy use. <i>Energy Procedia</i> , 2017, 140, 48-56.	1.8	7
58	Personal thermal perception models using skin temperatures and HR/HRV features. , 2019, , .		6
59	Reliability of an Item Set Assessing Indoor Climate in Officesâ€™ Results From Field Studies and Laboratory Research. <i>Frontiers in Built Environment</i> , 2019, 5, .	1.2	5
60	The ambivalence of personal control over indoor climate â€“ how much personal control is adequate?. <i>E3S Web of Conferences</i> , 2020, 172, 06010.	0.2	5
61	The Effect of Thermal Inertia on Office Workers Subjective and Physiological Responses; and Performance Under Summer Conditions. <i>Energy Procedia</i> , 2015, 78, 2953-2958.	1.8	4
62	Quantifying individual adaptive processes: first experiences with an experimental design dedicated to reveal further insights to thermal adaptation. <i>Architectural Science Review</i> , 2013, 56, 93-98.	1.1	3
63	Historical buildingsâ€™ energy conservation potentialities. <i>International Journal of Building Pathology and Adaptation</i> , 2019, 37, 306-325.	0.7	3
64	Laboratory Approaches to Studying Occupants. , 2018, , 169-212.		3
65	Documenting occupant models for building performance simulation: a state-of-the-art. <i>Journal of Building Performance Simulation</i> , 2022, 15, 634-655.	1.0	3
66	Modelling drivers of variance and adaptation for the prediction of thermal perception and energy use in zero energy buildings. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 609, 042039.	0.3	2
67	Information sharing preferences within buildings: Benefits of cognitive interviewing for enhancing a discrete choice experiment. <i>Energy and Buildings</i> , 2022, 258, 111786.	3.1	2
68	Adaptive processes explain variations in human thermal sensation. <i>Temperature</i> , 2016, 3, 518-520.	1.6	1
69	Perception of repeated pain relief with controllable and uncontrollable pain. <i>European Journal of Pain</i> , 2021, 25, 1702-1711.	1.4	1
70	New Approaches to Modelling Occupant Comfort. <i>Buildings</i> , 2022, 12, 985.	1.4	0