Stefano Schiavon

List of Publications by Citations

89 papers	3,693 citations	34 h-index	58 g-index
97 ext. papers	4,772 ext. citations	6.1 avg, IF	6.2 L-index

#	Paper	IF	Citations
89	Quantitative relationships between occupant satisfaction and satisfaction aspects of indoor environmental quality and building design. *Indoor Air*, **2012**, 22, 119-31	5.4	292
88	Personal comfort models: Predicting individuals' thermal preference using occupant heating and cooling behavior and machine learning. *Building and Environment*, **2018**, 129, 96-106	6.5	189
87	Personal comfort models—A new paradigm in thermal comfort for occupant-centric environmental control. *Building and Environment*, **2018**, 132, 114-124	6.5	182
86	Development of the ASHRAE Global Thermal Comfort Database II. *Building and Environment*, **2018**, 142, 502-512	6.5	164
85	Occupant satisfaction in LEED and non-LEED certified buildings. *Building and Environment*, **2013**, 68, 66-76	6.5	163
84	Indoor environmental quality assessment models: A literature review and a proposed weighting and classification scheme. *Building and Environment*, **2013**, 70, 210-222	6.5	146
83	Analysis of the accuracy on PMV–PPD model using the ASHRAE Global Thermal Comfort Database II. *Building and Environment*, **2019**, 153, 205-217	6.5	136
82	Dynamic predictive clothing insulation models based on outdoor air and indoor operative temperatures. *Building and Environment*, **2013**, 59, 250-260	6.5	127
81	Energy saving and improved comfort by increased air movement. *Energy and Buildings*, **2008**, 40, 1954-1960	7	127
80	Influence of factors unrelated to environmental quality on occupant satisfaction in LEED and non-LEED certified buildings. *Building and Environment*, **2014**, 77, 148-159	6.5	87
79	Thermal comfort in buildings using radiant vs. all-air systems: A critical literature review. *Building and Environment*, **2017**, 111, 123-131	6.5	82
78	Energy analysis of the personalized ventilation system in hot and humid climates. *Energy and Buildings*, **2010**, 42, 699-707	7	78
77	Modeling the comfort effects of short-wave solar radiation indoors. *Building and Environment*, **2015**, 88, 3-9	6.5	74
76	A review of advanced air distribution methods - theory, practice, limitations and solutions. *Energy and Buildings*, **2019**, 202, 109359	7	73
75	Thermal comfort, perceived air quality, and cognitive performance when personally controlled air movement is used by tropically acclimatized persons. *Indoor Air*, **2017**, 27, 690-702	5.4	72
74	Thermal comfort and self-reported productivity in an office with ceiling fans in the tropics. *Building and Environment*, **2018**, 135, 202-212	6.5	70
73	Cooling load differences between radiant and air systems. *Energy and Buildings*, **2013**, 65, 310-321	7	70

| 72 | Personal thermal comfort models with wearable sensors. *Building and Environment*, **2019**, 162, 106281 | 6.5 | 64 |

| 71 | CBE Thermal Comfort Tool: Online tool for thermal comfort calculations and visualizations. *SoftwareX*, **2020**, 12, 100563 | 2.7 | 62 |

| 70 | Indoor environmental quality and occupant satisfaction in green-certified buildings. *Building Research and Information*, **2019**, 47, 255-274 | 4.3 | 54 |

| 69 | Automated mobile sensing: Towards high-granularity agile indoor environmental quality monitoring. *Building and Environment*, **2018**, 127, 268-276 | 6.5 | 53 |

| 68 | Simplified calculation method for design cooling loads in underfloor air distribution (UFAD) systems. *Energy and Buildings*, **2011**, 43, 517-528 | 7 | 50 |

| 67 | Energy-saving strategies with personalized ventilation in cold climates. *Energy and Buildings*, **2009**, 41, 543-550 | 7 | 49 |

| 66 | PMV-based event-triggered mechanism for building energy management under uncertainties. *Energy and Buildings*, **2017**, 152, 73-85 | 7 | 48 |

| 65 | Ten questions concerning well-being in the built environment. *Building and Environment*, **2020**, 180, 106949 | | 47 |

| 64 | The impact of a view from a window on thermal comfort, emotion, and cognitive performance. *Building and Environment*, **2020**, 175, 106779 | 6.5 | 45 |

| 63 | A novel classification scheme for design and control of radiant system based on thermal response time. *Energy and Buildings*, **2017**, 137, 38-45 | 7 | 43 |

| 62 | A thermal comfort environmental chamber study of older and younger people. *Building and Environment*, **2019**, 155, 1-14 | 6.5 | 42 |

| 61 | Web application for thermal comfort visualization and calculation according to ASHRAE Standard 55. *Building Simulation*, **2014**, 7, 321-334 | 3.9 | 40 |

| 60 | Experimental comparison of zone cooling load between radiant and air systems. *Energy and Buildings*, **2014**, 84, 152-159 | 7 | 39 |

| 59 | Influence of raised floor on zone design cooling load in commercial buildings. *Energy and Buildings*, **2010**, 42, 1182-1191 | 7 | 38 |

| 58 | Sensation of draft at uncovered ankles for women exposed to displacement ventilation and underfloor air distribution systems. *Building and Environment*, **2016**, 96, 228-236 | 6.5 | 37 |

| 57 | New method for the design of radiant floor cooling systems with solar radiation. *Energy and Buildings*, **2016**, 125, 9-18 | 7 | 37 |

| 56 | Cooling efficiency of a brushless direct current stand fan. *Building and Environment*, **2015**, 85, 196-204 | 6.5 | 34 |

| 55 | Evaluating assumptions of scales for subjective assessment of thermal environments Do laypersons perceive them the way, we researchers believe?. *Energy and Buildings*, **2020**, 211, 109761 | 7 | 34 |

54	Energy and cost associated with ventilating office buildings in a tropical climate. *PLoS ONE*, **2015**, 10, e0122310	3.7	33
53	. *Proceedings of the IEEE*, **2018**, 106, 1680-1699	14.3	31
52	Comparing temperature and acoustic satisfaction in 60 radiant and all-air buildings. *Building and Environment*, **2017**, 126, 431-441	6.5	30
51	Longitudinal assessment of thermal and perceived air quality acceptability in relation to temperature, humidity, and CO2 exposure in Singapore. *Building and Environment*, **2017**, 115, 80-90	6.5	28
50	Satisfaction with indoor environmental quality in BREEAM and non-BREEAM certified office buildings. *Architectural Science Review*, **2017**, 60, 343-355	2.6	26
49	Predicted percentage dissatisfied with ankle draft. *Indoor Air*, **2017**, 27, 852-862	5.4	24
48	Detailed experimental investigation of air speed field induced by ceiling fans. *Building and Environment*, **2018**, 142, 342-360	6.5	24
47	Comparison of mean radiant and air temperatures in mechanically-conditioned commercial buildings from over 200,000 field and laboratory measurements. *Energy and Buildings*, **2020**, 206, 109582	7	24
46	Ceiling fans: Predicting indoor air speeds based on full scale laboratory measurements. *Building and Environment*, **2019**, 155, 210-223	6.5	23
45	Side-by-side laboratory comparison of space heat extraction rates and thermal energy use for radiant and all-air systems. *Energy and Buildings*, **2018**, 176, 139-150	7	23
44	A tracking cooling fan using geofence and camera-based indoor localization. *Building and Environment*, **2017**, 114, 36-44	6.5	22
43	Full scale laboratory experiment on the cooling capacity of a radiant floor system. *Energy and Buildings*, **2018**, 170, 134-144	7	22
42	Introduction of a Cooling-Fan Efficiency Index. *HVAC and R Research*, **2009**, 15, 1121-1144		22
41	Thermal decay in underfloor air distribution (UFAD) systems: Fundamentals and influence on system performance. *Applied Energy*, **2012**, 91, 197-207	10.7	21
40	Real-time monitoring of personal exposures to carbon dioxide. *Building and Environment*, **2016**, 104, 59-67	6.5	21
39	pythermalcomfort: A Python package for thermal comfort research. *SoftwareX*, **2020**, 12, 100578	2.7	20
38	A data-driven approach to defining acceptable temperature ranges in buildings. *Building and Environment*, **2019**, 153, 302-312	6.5	20
37	Lessons learned from 20 years of CBE occupant surveys. *Buildings and Cities*, **2021**, 2, 166-184	3.3	19

36	Correlations in thermal comfort and natural wind. *Journal of Thermal Biology*, **2013**, 38, 419-426	2.9	17
35	Stratification prediction model for perimeter zone UFAD diffusers based on laboratory testing with solar simulator. *Energy and Buildings*, **2014**, 82, 786-794	7	16
34	Influence of Three Dynamic Predictive Clothing Insulation Models on Building Energy Use, HVAC Sizing and Thermal Comfort. *Energies*, **2014**, 7, 1917-1934	3.1	16
33	Side-by-side laboratory comparison of radiant and all-air cooling: How natural ventilation cooling and heat gain characteristics impact space heat extraction rates and daily thermal energy use. *Energy and Buildings*, **2019**, 200, 68-85	7	15
32	Chilled ceiling and displacement ventilation system: Laboratory study with high cooling load. *Science and Technology for the Built Environment*, **2015**, 21, 944-956	1.8	15
31	Occupant satisfaction with the indoor environment in seven commercial buildings in Singapore. *Building and Environment*, **2021**, 188, 107443	6.5	15
30	Evaluation of the effect of landscape distance seen in window views on visual satisfaction. *Building and Environment*, **2020**, 183, 107160	6.5	14
29	Improved long-term thermal comfort indices for continuous monitoring. *Energy and Buildings*, **2020**, 224, 110270	7	13
28	Personal CO cloud: laboratory measurements of metabolic CO inhalation zone concentration and dispersion in a typical office desk setting. *Journal of Exposure Science and Environmental Epidemiology*, **2020**, 30, 328-337	6.7	13
27	Effect of sensor position on the performance of CO_2-based demand controlled ventilation. *Energy and Buildings*, **2019**, 202, 109358	7	12
26	Field investigations of a smiley-face polling station for recording occupant satisfaction with indoor climate. *Building and Environment*, **2020**, 185, 107266	6.5	12
25	The Scales Project, a cross-national dataset on the interpretation of thermal perception scales. *Scientific Data*, **2019**, 6, 289	8.2	12
24	Cooling capacity and acoustic performance of radiant slab systems with free-hanging acoustical clouds. *Energy and Buildings*, **2017**, 138, 676-686	7	10
23	Development of Whole-Building Energy Models for Detailed Energy Insights of a Large Office Building with Green Certification Rating in Singapore. *Energy Technology*, **2018**, 6, 84-93	3.5	10
22	Plug load energy analysis: The role of plug loads in LEED certification and energy modeling. *Energy and Buildings*, **2014**, 76, 328-335	7	10
21	Laboratory testing of a displacement ventilation diffuser for underfloor air distribution systems. *Energy and Buildings*, **2015**, 108, 82-91	7	9
20	Ventilation, thermal and luminous autonomy metrics for an integrated design process. *Building and Environment*, **2018**, 145, 153-165	6.5	9
19	A Window View Quality Assessment Framework. *LEUKOS - Journal of Illuminating Engineering Society of North America*, 1-26	3.5	9

#	Publication		
18	Effect of acoustical clouds coverage and air movement on radiant chilled ceiling cooling capacity. *Energy and Buildings*, **2018**, 158, 939-949	7	9
17	Meta-analysis of 35 studies examining the effect of indoor temperature on office work performance. *Building and Environment*, **2021**, 203, 108037	6.5	9
16	Coordinate control of air movement for optimal thermal comfort. *Science and Technology for the Built Environment*, **2018**, 24, 886-896	1.8	8
15	Adaptable cooling coil performance during part loads in the tropics A computational evaluation. *Energy and Buildings*, **2018**, 159, 148-163	7	8
14	Size-resolved dynamics of indoor and outdoor fluorescent biological aerosol particles in a bedroom: A one-month case study in Singapore. *Indoor Air*, **2020**, 30, 942-954	5.4	8
13	Predicted percentage dissatisfied with vertical temperature gradient. *Energy and Buildings*, **2020**, 220, 110085	7	7
12	A Bayesian method of evaluating discomfort due to glare: The effect of order bias from a large glare source. *Building and Environment*, **2018**, 146, 258-267	6.5	7
11	Targeted occupant surveys: A novel method to effectively relate occupant feedback with environmental conditions. *Building and Environment*, **2020**, 184, 107129	6.5	6
10	A dimensionality reduction method to select the most representative daylight illuminance distributions. *Journal of Building Performance Simulation*, **2020**, 13, 122-135	2.8	5
9	Impact of Cognitive Tasks on CO and Isoprene Emissions from Humans. *Environmental Science & Technology*, **2021**, 55, 139-148	10.3	5
8	Balancing thermal comfort datasets **2020**,		3
7	A data-driven analysis of occupant workspace dissatisfaction. *Building and Environment*, **2021**, 205, 108270	6.5	3
6	Impacts of life satisfaction, job satisfaction and the Big Five personality traits on satisfaction with the indoor environment. *Building and Environment*, **2022**, 212, 108783	6.5	2
5	Overcooling of offices reveals gender inequity in thermal comfort. *Scientific Reports*, **2021**, 11, 23684	4.9	1
4	Application of Gagge s energy balance model to determine humidity-dependent temperature thresholds for healthy adults using electric fans during heatwaves. *Building and Environment*, **2022**, 207, 108437	6.5	1
3	Experimental evaluation of visual flicker caused by ceiling fans. *Building and Environment*, **2020**, 182, 107060	6.5	1
2	Field evaluation of thermal and acoustical comfort in eight North-American buildings using embedded radiant systems. *PLoS ONE*, **2021**, 16, e0258888	3.7	
1	Effects of IAQ on Office Work Performance **2022**, 1-27		