Richard de Dear

List of Publications by Citations

159 papers	9,854 citations	52 h-index	97 g-index
173 ext. papers	11,758 ext. citations	5.5 avg, IF	6.88 L-index

#	Paper	IF	Citations
159	Thermal adaptation in the built environment: a literature review. *Energy and Buildings*, **1998**, 27, 83-96	7	797
158	Thermal comfort in naturally ventilated buildings: revisions to ASHRAE Standard 55. *Energy and Buildings*, **2002**, 34, 549-561	7	741
157	UTCI--why another thermal index?. *International Journal of Biometeorology*, **2012**, 56, 421-8	3.7	452
156	A field study of thermal comfort in outdoor and semi-outdoor environments in subtropical Sydney Australia. *Building and Environment*, **2003**, 38, 721-738	6.5	436
155	Workspace satisfaction: The privacy-communication trade-off in´open-plan offices. *Journal of Environmental Psychology*, **2013**, 36, 18-26	6.7	310
154	Progress in thermal comfort research over the last twenty years. *Indoor Air*, **2013**, 23, 442-61	5.4	277
153	The adaptive model of thermal comfort and energy conservation in the built environment. *International Journal of Biometeorology*, **2001**, 45, 100-8	3.7	274
152	Convective and radiative heat transfer coefficients for individual human body segments. *International Journal of Biometeorology*, **1997**, 40, 141-56	3.7	238
151	Individual difference in thermal comfort: A literature review. *Building and Environment*, **2018**, 138, 181-193	6.5	220
150	Thermal comfort in residential buildings: Comfort values and scales for building energy simulation. *Applied Energy*, **2009**, 86, 772-780	10.7	220
149	Nonlinear relationships between individual IEQ factors and overall workspace satisfaction. *Building and Environment*, **2012**, 49, 33-40	6.5	167
148	Development of the ASHRAE Global Thermal Comfort Database II. *Building and Environment*, **2018**, 142, 502-512	6.5	164
147	Revisiting an old hypothesis of human thermal perception: alliesthesia. *Building Research and Information*, **2011**, 39, 108-117	4.3	164
146	Field studies of thermal comfort across multiple climate zones for the subcontinent: India Model for Adaptive Comfort (IMAC). *Building and Environment*, **2016**, 98, 55-70	6.5	161
145	Green occupants for green buildings: The missing link?. *Building and Environment*, **2012**, 56, 21-27	6.5	157
144	Effect of thermal adaptation on seasonal outdoor thermal comfort. *International Journal of Climatology*, **2011**, 31, 302-312	3.5	148
143	Gender differences in office occupant perception of indoor environmental quality (IEQ). *Building and Environment*, **2013**, 70, 245-256	6.5	144

142	Thermal comfort in the humid tropics: Field experiments in air conditioned and naturally ventilated buildings in Singapore. *International Journal of Biometeorology*, **1991**, 34, 259-265	3.7	142
141	Are □lass A□temperature requirements realistic or desirable?. *Building and Environment*, **2010**, 45, 4-10	6.5	140
140	Expectations of indoor climate control. *Energy and Buildings*, **1996**, 24, 179-182	7	128
139	Air movement acceptability limits and thermal comfort in Brazil's hot humid climate zone. *Building and Environment*, **2010**, 45, 222-229	6.5	127
138	Review of adaptive thermal comfort models in built environmental regulatory documents. *Building and Environment*, **2018**, 137, 73-89	6.5	121
137	Adaptive thermal comfort in Australian school classrooms. *Building Research and Information*, **2015**, 43, 383-398	4.3	119
136	Thermal Sensations Resulting From Sudden Ambient Temperature Changes. *Indoor Air*, **1993**, 3, 181-192	5.4	111
135	Thermal comfort in practice. *Indoor Air*, **2004**, 14 Suppl 7, 32-9	5.4	109
134	Weather, clothing and thermal adaptation to indoor climate. *Climate Research*, **2003**, 24, 267-284	1.6	109
133	Thermal pleasure in built environments: physiology of alliesthesia. *Building Research and Information*, **2015**, 43, 288-301	4.3	107
132	Mixed-mode buildings: A double standard in occupants□comfort expectations. *Building and Environment*, **2012**, 54, 53-60	6.5	104
131	Adaptive temperature limits: A new guideline in The Netherlands: A new approach for the assessment of building performance with respect to thermal indoor climate. *Energy and Buildings*, **2006**, 38, 8-17	7	101
130	Thermal comfort and behavioural strategies in office buildings located in a hot-arid climate. *Journal of Thermal Biology*, **2001**, 26, 409-414	2.9	101
129	The dynamics of thermal comfort expectations: The problem, challenge and impication. *Building and Environment*, **2016**, 95, 322-329	6.5	94
128	Validation of the Fiala multi-node thermophysiological model for UTCI application. *International Journal of Biometeorology*, **2012**, 56, 443-60	3.7	88
127	Desk ownership in the workplace: The effect of non-territorial working on employee workplace satisfaction, perceived productivity and health. *Building and Environment*, **2016**, 103, 203-214	6.5	81
126	Exposure to ultrafine particles and PM2.5 in four Sydney transport modes. *Atmospheric Environment*, **2010**, 44, 3224-3227	5.3	77
125	Thermal comfort expectations and adaptive behavioural characteristics of primary and secondary school students. *Building and Environment*, **2018**, 127, 13-22	6.5	73

124	Effect of temperature on mortality during the six warmer months in Sydney, Australia, between 1993 and 2004. *Environmental Research*, **2008**, 108, 361-9	7.9	71
123	Nudging the adaptive thermal comfort model. *Energy and Buildings*, **2020**, 206, 109559	7	68
122	Combined thermal acceptability and air movement assessments in a hot humid climate. *Building and Environment*, **2011**, 46, 379-385	6.5	67
121	Understanding patterns of adaptive comfort behaviour in the Sydney mixed-mode residential context. *Energy and Buildings*, **2017**, 141, 274-283	7	64
120	Weather sensitivity in household appliance energy end-use. *Energy and Buildings*, **2004**, 36, 161-174	7	64
119	BOSSA: a multidimensional post-occupancy evaluation tool. *Building Research and Information*, **2016**, 44, 214-228	4.3	63
118	Effect of cabin ventilation rate on ultrafine particle exposure inside automobiles. *Environmental Science & Technology*, **2010**, 44, 3546-51	10.3	63
117	Thermal sensation and thermophysiological responses to metabolic step-changes. *International Journal of Biometeorology*, **2006**, 50, 323-32	3.7	63
116	Temperature Transients: A Model for Heat Diffusion through the Skin, Thermoreceptor Response and Thermal Sensation. *Indoor Air*, **1991**, 1, 448-456	5.4	63
115	Outdoor thermal physiology along human pathways: a study using a wearable measurement system. *International Journal of Biometeorology*, **2015**, 59, 503-15	3.7	62
114	Effects of moderate thermal environments on cognitive performance: A multidisciplinary review. *Applied Energy*, **2019**, 236, 760-777	10.7	61
113	Residential adaptive comfort in a humid subtropical climate—Sydney Australia. *Energy and Buildings*, **2018**, 158, 1296-1305	7	60
112	Airconditioning in Australia I—Human Thermal Factors. *Architectural Science Review*, **1986**, 29, 67-75	2.6	57
111	Continuous IEQ monitoring system: Context and development. *Building and Environment*, **2019**, 149, 15-25	6.5	56
110	Field study of mixed-mode office buildings in Southern Brazil using an adaptive thermal comfort framework. *Energy and Buildings*, **2018**, 158, 1475-1486	7	54
109	Field study of air change and flow rate in six automobiles. *Indoor Air*, **2009**, 19, 303-13	5.4	53
108	Application of Artificial Neural Network Forecasts to Predict Fog at Canberra International Airport. *Weather and Forecasting*, **2007**, 22, 372-381	2.1	52
107	Energy use impact of and thermal comfort in different urban block types in the Netherlands. *Energy and Buildings*, **2013**, 67, 166-175	7	51

106	Impact of different building ventilation modes on occupant expectations of the main IEQ factors. *Building and Environment*, **2012**, 57, 184-193	6.5	51
105	Perceptual and physiological responses of elderly subjects to moderate temperatures. *Building and Environment*, **2019**, 156, 117-122	6.5	48
104	Hot weather and heat extremes: health risks. *Lancet, The*, **2021**, 398, 698-708	40	48
103	Associations of occupant demographics, thermal history and obesity variables with their thermal comfort in air-conditioned and mixed-mode ventilation office buildings. *Building and Environment*, **2018**, 135, 1-9	6.5	47
102	A review of adaptive thermal comfort research since 1998. *Energy and Buildings*, **2020**, 214, 109893	7	45
101	The effects of higher temperature setpoints during summer on office workers' cognitive load and thermal comfort. *Building and Environment*, **2017**, 123, 176-188	6.5	45
100	Thermal comfort in office buildings: Findings from a field study in mixed-mode and fully-air conditioning environments under humid subtropical conditions. *Building and Environment*, **2017**, 123, 672-683	6.5	44
99	Is it hot in here or is it just me? Validating the post-occupancy evaluation. *Intelligent Buildings International*, **2014**, 6, 112-134	1.7	44
98	Synoptic analysis of heat-related mortality in Sydney, Australia, 1993-2001. *International Journal of Biometeorology*, **2008**, 52, 439-51	3.7	44
97	Thermal pleasure in built environments: alliesthesia in different thermoregulatory zones. *Building Research and Information*, **2016**, 44, 20-33	4.3	42
96	Cooling exposure in hot humid climates: are occupants □ddicted□. *Architectural Science Review*, **2010**, 53, 59-64	2.6	41
95	A synoptic climatology of tropospheric ozone episodes in Sydney, Australia. *International Journal of Climatology*, **2006**, 26, 1635-1649	3.5	39
94	The uncertainty of subjective thermal comfort measurement. *Energy and Buildings*, **2018**, 181, 38-49	7	39
93	A human thermal climatology of subtropical Sydney. *International Journal of Climatology*, **2003**, 23, 1383-1395	3.5	38
92	A preliminary evaluation of two strategies for raising indoor air temperature setpoints in office buildings. *Architectural Science Review*, **2011**, 54, 148-156	2.6	37
91	Rational selection of heating temperature set points for China's hot□summer □Cold winter climatic region. *Building and Environment*, **2015**, 93, 63-70	6.5	32
90	Continuous IEQ monitoring system: Performance specifications and thermal comfort classification. *Building and Environment*, **2019**, 149, 241-252	6.5	32
89	Thermal sensitivity of occupants in different building typologies: The Griffiths Constant is a Variable. *Energy and Buildings*, **2019**, 200, 11-20	7	31

88	Thermal comfort during temperature cycles induced by direct load control strategies of peak electricity demand management. *Building and Environment*, **2016**, 103, 9-20	6.5	31
87	Towards a Brazilian standard for naturally ventilated buildings: guidelines for thermal and air movement acceptability. *Building Research and Information*, **2011**, 39, 145-153	4.3	30
86	Air conditioning in a tropical climate: impacts upon European residents in Darwin, Australia. *International Journal of Biometeorology*, **1986**, 30, 259-82	3.7	30
85	Occupant comfort in naturally ventilated and mixed-mode spaces within air-conditioned offices. *Architectural Science Review*, **2010**, 53, 297-306	2.6	29
84	Residential adaptive comfort in a humid continental climate Tianjin China. *Energy and Buildings*, **2018**, 170, 115-121	7	29
83	Thermal comfort in a mixed-mode building: Are occupants more adaptive?. *Energy and Buildings*, **2019**, 203, 109436	7	28
82	Environmental and human factors influencing thermal comfort of office occupants in hot - humid and hot - arid climates. *Ergonomics*, **2003**, 46, 616-28	2.9	28
81	On-road ultrafine particle concentration in the M5 East road tunnel, Sydney, Australia. *Atmospheric Environment*, **2009**, 43, 3510-3519	5.3	27
80	Thermal pleasure in built environments: spatial alliesthesia from air movement. *Building Research and Information*, **2017**, 45, 320-335	4.3	25
79	University students' cognitive performance under temperature cycles induced by direct load control events. *Indoor Air*, **2017**, 27, 78-93	5.4	24
78	Thermal pleasure in built environments: spatial alliesthesia from contact heating. *Building Research and Information*, **2016**, 44, 248-262	4.3	23
77	Co-optimisation of indoor environmental quality and energy consumption within urban office buildings. *Energy and Buildings*, **2014**, 85, 225-234	7	23
76	Influence of long-term thermal history on thermal comfort and preference. *Energy and Buildings*, **2020**, 210, 109685	7	23
75	Reducing the health effects of hot weather and heat extremes: from personal cooling strategies to green cities. *Lancet, The*, **2021**, 398, 709-724	40	23
74	Human thermal sensation: frequency response to sinusoidal stimuli at the surface of the skin. *Energy and Buildings*, **1993**, 20, 159-165	7	22
73	Auditory distraction in open-plan office environments: The effect of multi-talker acoustics. *Applied Acoustics*, **2017**, 126, 68-80	3.1	21
72	Thermal environments and thermal comfort impacts of Direct Load Control air-conditioning strategies in university lecture theatres. *Energy and Buildings*, **2015**, 86, 233-242	7	21
71	Effects of artificially induced heat acclimatization on subjects thermal and air movement preferences. *Building and Environment*, **2012**, 49, 251-258	6.5	20

70	Enhancement of Coolness to the Touch by Hygroscopic Fibers: Part II: Physical Mechanisms. *Textile Reseach Journal*, **1996**, 66, 587-594	1.7	19
69	Adaptation and Thermal Environment **2009**, 9-32		19
68	Fanning as an alternative to air conditioning A sustainable solution for reducing indoor occupational heat stress. *Energy and Buildings*, **2019**, 193, 92-98	7	18
67	Application of Taguchi method in optimising thermal comfort and cognitive performance during direct load control events. *Building and Environment*, **2017**, 111, 160-168	6.5	17
66	Comfort cooling by wind towers in the Australian residential context Experimental wind tunnel study of comfort. *Journal of Wind Engineering and Industrial Aerodynamics*, **2020**, 196, 104014	3.7	17
65	Defining the thermal sensitivity (Griffiths constant) of building occupants in the Korean residential context. *Energy and Buildings*, **2020**, 208, 109648	7	17
64	Effects of urban context on the indoor thermal comfort performance of windcatchers in a residential setting. *Energy and Buildings*, **2020**, 219, 110010	7	16
63	Associations of bedroom temperature and ventilation with sleep quality. *Science and Technology for the Built Environment*, **2020**, 26, 1274-1284	1.8	16
62	Impacts of demographic, contextual and interaction effects on thermal sensation Evidence from a global database. *Building and Environment*, **2019**, 162, 106286	6.5	16
61	A synoptic climatology of pollen concentrations during the six warmest months in Sydney, Australia. *International Journal of Biometeorology*, **2007**, 51, 209-20	3.7	16
60	Inconsistencies in the New Windchill Chart at Low Wind Speeds. *Journal of Applied Meteorology and Climatology*, **2006**, 45, 787-790	2.7	16
59	CONVECTIVE HEAT TRANSFER COEFFICIENTS AND CLOTHING INSULATIONS FOR PARTS OF THE CLOTHED HUMAN BODY UNDER AIRFLOW CONDITIONS. *Nihon Kenchiku Gakkai Keikakukei Ronbunshu*, **2002**, 67, 21-29	0.2	16
58	EVALUATION OF THE EFFECT OF AIR FLOW ON CLOTHING INSULATION AND ON DRY HEAT TRANSFER COEFFICIENTS FOR EACH PART OF THE CLOTHED HUMAN BODY. *Nihon Kenchiku Gakkai Keikakukei Ronbunshu*, **2001**, 66, 13-21	0.2	14
57	Improved long-term thermal comfort indices for continuous monitoring. *Energy and Buildings*, **2020**, 224, 110270	7	13
56	Development of a bioclimatic wind rose tool for assessment of comfort wind resources in Sydney, Australia for 2013 and 2030. *International Journal of Biometeorology*, **2018**, 62, 1963-1972	3.7	13
55	Adapting buildings to a changing climate: but what about the occupants?. *Building Research and Information*, **2006**, 34, 78-81	4.3	13
54	CONVECTIVE HEAT TRANSFER COEFFICIENTS AND CLOTHING INSULATIONS FOR PARTS OF THE CLOTHED HUMAN BODY UNDER CALM CONDITIONS. *Nihon Kenchiku Gakkai Keikakukei Ronbunshu*, **2002**, 67, 31-39	0.2	13
53	DIURNAL AND SEASONAL VARIATIONS IN THE HUMAN THERMAL CLIMATE OF SINGAPORE. *Singapore Journal of Tropical Geography*, **1989**, 10, 13-26	1.5	13

52	Indoor climate and thermal comfort in high-rise public housing in an equatorial climate: A field-study in Singapore. *Atmospheric Environment Part B Urban Atmosphere*, **1990**, 24, 313-320		13
51	Airconditioning in Australia II□User Attitudes. *Architectural Science Review*, **1988**, 31, 19-27	2.6	13
50	Experimental study on convective heat transfer coefficients for the human body exposed to turbulent wind conditions. *Building and Environment*, **2020**, 169, 106533	6.5	13
49	The Theory of Thermal Comfort in Naturally Ventilated Indoor Environments - □he Pleasure Principle□*International Journal of Ventilation*, **2009**, 8, 243-250	1.1	12
48	A simple and inexpensive dilution system for the TSI 3007 condensation particle counter. *Atmospheric Environment*, **2007**, 41, 4553-4557	5.3	12
47	Globe Anemo-radiometer. *Boundary-Layer Meteorology*, **2015**, 155, 209-227	3.4	11
46	From thermal boredom to thermal pleasure: a brief literature review. *Ambiente Construído*, **2012**, 12, 81-90	0.4	10
45	The next generation of experientially realistic lab-based research: The University of Sydney's Indoor Environmental Quality Laboratory. *Architectural Science Review*, **2013**, 56, 83-92	2.6	10
44	From thermal sensation to thermal affect: A multi-dimensional semantic space to assess outdoor thermal comfort. *Building and Environment*, **2020**, 182, 107112	6.5	10
43	Thermal comfort in outdoor and semi-outdoor environments. *Elsevier Ergonomics Book Series*, **2005**, 269-276		9
42	Aplicabilidade dos limites da velocidade do ar para efeito de conforto t□rmico em climas quentes e □midos. *Ambiente Construído*, **2010**, 10, 59-68	0.4	9
41	Optimization of Wind Tower Cooling Performance: A Wind Tunnel Study of Indoor Air Movement and Thermal Comfort. *Procedia Engineering*, **2017**, 180, 611-620		8
40	Indoor environment and adaptive thermal comfort models in residential buildings in Tianjin, China. *Procedia Engineering*, **2017**, 205, 1627-1634		8
39	Dynamic thermal pleasure in outdoor environments - temporal alliesthesia. *Science of the Total Environment*, **2021**, 771, 144910	10.2	8
38	Sound in occupied open-plan offices: Objective metrics with a review of historical perspectives. *Applied Acoustics*, **2021**, 177, 107943	3.1	8
37	Dynamic thermal perception: A review and agenda for future experimental research. *Building and Environment*, **2021**, 205, 108269	6.5	8
36	Quantifying the □uman factor□n office building energy efficiency: a mixed-method approach. *Architectural Science Review*, **2011**, 54, 124-131	2.6	7
35	Reliability and repeatability of ISO 3382-3 metrics based on repeated acoustic measurements in open-plan offices. *Applied Acoustics*, **2019**, 150, 138-146	3.1	7

34	Development of a heat stress exposure metric □mpact of intensity and duration of exposure to heat on physiological thermal regulation. *Building and Environment*, **2021**, 200, 107947	6.5	7
33	Quantifying householder tolerance of thermal discomfort before turning on air-conditioner. *Energy and Buildings*, **2020**, 211, 109797	7	6
32	Full scale and model investigation of natural ventilation and thermal comfort in a building. *Journal of Wind Engineering and Industrial Aerodynamics*, **1992**, 44, 2599-2609	3.7	6
31	Movement at work: A comparison of real time location system, accelerometer and observational data from an office work environment. *Applied Ergonomics*, **2021**, 92, 103341	4.2	6
30	Gender differences and non-thermal factors in thermal comfort of office occupants in a hot-arid climate. *Elsevier Ergonomics Book Series*, **2005**, 3, 263-268		5
29	Is mixed-mode ventilation a comfortable low-energy solution? A literature review. *Building and Environment*, **2021**, 205, 108215	6.5	5
28	Data fusion in buildings: Synthesis of high-resolution IEQ and occupant tracking data. *Science of the Total Environment*, **2021**, 776, 146047	10.2	4
27	The colours of comfort: From thermal sensation to person-centric thermal zones for adaptive building strategies. *Energy and Buildings*, **2020**, 216, 109936	7	3
26	Indoor temperatures for optimum thermal comfort and human performance - reply to the letter by Wyon and Wargocki. *Indoor Air*, **2014**, 24, 554-5	5.4	3
25	In defence of space cooling and the science of thermal comfort. *Energy and Buildings*, **1992**, 18, 260-262	7	3
24	Status and New Developments in Indoor Thermal Environmental Standards. *Journal of the Human-Environment System*, **2001**, 5, 1-12	0.4	3
23	Laboratory Approaches to Studying Occupants **2018**, 169-212		3
22	Predicting thermal pleasure experienced in dynamic environments from simulated cutaneous thermoreceptor activity. *Indoor Air*, **2021**, 31, 2266-2280	5.4	3
21	Comments on □lothing as a Mobile Environment for Human Beings Prospects of Clothing for the Future□presented by Teruko Tamura, Presidential Address to ICHES'05 Tokyo, Japan 12□15 September 2005. *Journal of the Human-Environment System*, **2007**, 10, 45-46	0.4	2
20	The health benefits of greening strategies to cool urban environments □A heat health impact method. *Building and Environment*, **2021**, 108546	6.5	2
19	The impact of occupant's thermal sensitivity on adaptive thermal comfort model. *Building and Environment*, **2021**, 207, 108517	6.5	2
18	Identification of Environmental and Contextual Driving Factors of Air Conditioning Usage Behaviour in the Sydney Residential Buildings. *Buildings*, **2021**, 11, 122	3.2	2
17	On the temporal dimension of adaptive thermal comfort mechanisms in residential buildings. *IOP Conference Series: Materials Science and Engineering*, **2019**, 609, 042071	0.4	2

16	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	7	2
15	Overcooling of offices reveals gender inequity in thermal comfort. *Scientific Reports*, **2021**, 11, 23684	4.9	1
14	Comparison of residential thermal comfort in two different climates in Australia. *Building and Environment*, **2022**, 211, 108706	6.5	1
13	Study on the influence of climatic thermal exposure environment changed from cold to hot on human thermal preference. *Building and Environment*, **2022**, 207, 108430	6.5	1
12	Activity space, office space: Measuring the spatial movement of office workers. *Applied Ergonomics*, **2022**, 98, 103600	4.2	1
11	Thermal Comfort Inside and Outside Buildings **2016**, 89-99		1
10	Study on adaptive comfort behaviours in mixed-mode residential buildings in Tianjin, China. *Indoor and Built Environment*,1420326X2110321	1.8	1
9	Creating household occupancy and energy behavioural profiles using national time use survey data. *Energy and Buildings*, **2021**, 252, 111440	7	1
8	The potential for indoor fans to change air conditioning use while maintaining human thermal comfort during hot weather: an analysis of energy demand and associated greenhouse gas emissions.. *Lancet Planetary Health, The*, **2022**, 6, e301-e309	9.8	1
7	Adaptive thermal comfort model based on field studies in five climate zones across India. *Building and Environment*, **2022**, 219, 109187	6.5	1
6	Effect of adaptive opportunity on cognitive performance in warm environments.. *Science of the Total Environment*, **2022**, 823, 153698	10.2	0
5	Ventilation mode effect on thermal comfort in a mixed mode building. *IOP Conference Series: Materials Science and Engineering*, **2019**, 609, 042029	0.4	0
4	Impact of wind turbulence on thermal perception in the urban microclimate. *Journal of Wind Engineering and Industrial Aerodynamics*, **2021**, 216, 104714	3.7	0
3	Associations between spatial attributes, IEQ exposures and occupant movement behaviour in an open-plan office. *Building and Environment*, **2022**, 212, 108812	6.5	
2	Adaptive Comfort and Mixed-Mode Conditioning **2020**, 481-494		
1	Developing a window behaviour model incorporating A/C operation states. *Building and Environment*, **2022**, 214, 108953	6.5	