

## Publications for Richard de Dear

### 2018

Rupp, R., Kim, J., de Dear, R., Ghisi, E. (2018). 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*, 135, 1-9. <a

href="http://dx.doi.org/10.1016/j.buildenv.2018.02.049">[More Information]</a>

Rupp, R., de Dear, R., Ghisi, E. (2018). Field study of mixed-mode office buildings in Southern Brazil using an adaptive thermal comfort framework. *Energy and Buildings*, 158, 1475-1486. <a

href="http://dx.doi.org/10.1016/j.enbuild.2017.11.047">[More Information]</a>

Wagner, A., Andersen, R., Zhang, H., de Dear, R., Schweiker, M., Goh, E., Streblov, R., Goia, F., Park, S. (2018). Laboratory Approaches to Studying Occupants. In Wagner A., Oâ€™Brien W. Dong B. (Eds.), *Exploring Occupant Behavior in Buildings*, (pp. 169-212). United states: Springer, Cham. <a

href="http://dx.doi.org/10.1007/978-3-319-61464-9\_7">[More Information]</a>

de Dear, R., Kim, J., Parkinson, T. (2018). Residential adaptive comfort in a humid subtropical climate - Sydney Australia. *Energy and Buildings*, 158, 1296-1305.

de Dear, R., Kim, J., Parkinson, T. (2018). Residential adaptive comfort in a humid subtropical climate; 1/2 Sydney Australia. *Energy and Buildings*, 158, 1296-1305. <a

href="http://dx.doi.org/10.1016/j.enbuild.2017.11.028">[More Information]</a>

Kim, J., de Dear, R. (2018). Thermal comfort expectations and adaptive behavioural characteristics of primary and secondary school students. *Building and Environment*, 127(January 2018), 13-22. <a

href="http://dx.doi.org/10.1016/j.buildenv.2017.10.031">[More Information]</a>

### 2017

Zhang, F., de Dear, R. (2017). Application of Taguchi method in optimising thermal comfort and cognitive performance during direct load control events. *Building and Environment*, 111, 160-168. <a

href="http://dx.doi.org/10.1016/j.buildenv.2016.11.012">[More Information]</a>

Yadav, M., Kim, J., Cabrera, D., de Dear, R. (2017). Auditory distraction in open-plan office environments: The effect of multi-talker acoustics. *Applied Acoustics*, 126, 68-80. <a href="http://dx.doi.org/10.1016/j.apacoust.2017.05.011">[More Information]</a>

Song, Y., Sun, Y., Luo, S., Hou, J., Kim, J., Parkinson, T., de Dear, R. (2017). Indoor environment and adaptive thermal comfort models in residential buildings in Tianjin, China. *10th International Symposium on Heating, Ventilation and Air Conditioning, ISHVAC 2017*, Jinan: Elsevier. <a href="http://dx.doi.org/10.1016/j.proeng.2017.10.310">[More Information]</a>

Song, Y., Sun, Y., Luo, S., Hou, J., Kim, J., Parkinson, T., de Dear, R. (2017). Indoor environment and adaptive thermal comfort models in residential buildings in Tianjin, China. *Procedia Engineering*, 205(2017), 1627-1634. <a

href="http://dx.doi.org/10.1016/j.proeng.2017.10.310">[More Information]</a>

Sadeghi, M., de Dear, R., Samali, B., Wood, G. (2017). Optimization of wind tower cooling performance: A wind tunnel study of indoor air movement and thermal comfort. *Procedia Engineering*, 180, 611-620. <a

href="http://dx.doi.org/10.1016/j.proeng.2017.04.220">[More Information]</a>

Zhang, F., Haddad, S., Nakisa, B., Naim Rastgoo, M., Candido, C., Tjondronegoro, D., de Dear, R. (2017). The effects of higher temperature setpoints during summer on office workers' cognitive load and thermal comfort. *Building and Environment*, 123, 176-188. <a

href="http://dx.doi.org/10.1016/j.buildenv.2017.06.048">[More Information]</a>

De Vecchi, R., Candido, C., de Dear, R., Lamberts, R. (2017). 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*, 123, 672-683. <a

href="http://dx.doi.org/10.1016/j.buildenv.2017.07.029">[More Information]</a>

Parkinson, T., de Dear, R. (2017). Thermal pleasure in built environments: spatial alliesthesia from air movement. *Building Research and Information*, 45(3), 320-335. <a

href="http://dx.doi.org/10.1080/09613218.2016.1140932">[More Information]</a>

Kim, J., de Dear, R., Parkinson, T., Candido, C. (2017). Understanding patterns of adaptive comfort behaviour in the Sydney mixed-mode residential context. *Energy and Buildings*, 141, 274-283. <a

href="http://dx.doi.org/10.1016/j.enbuild.2017.02.061">[More Information]</a>

Zhang, F., de Dear, R. (2017). University students' cognitive performance under temperature cycles induced by direct load control events. *Indoor Air*, 27(1), 78-93. <a

href="http://dx.doi.org/10.1111/ina.12296">[More Information]</a>

### 2016

Sadeghi, M., de Dear, R., Samali, B., Wood, G. (2016). Application of Wind Towers in the Australian Residential context - A Wind Tunnel Assessment of Thermal Comfort Performance. *Windsor Conference 2016: Making Comfort Relevant*, Windsor: NCEUB Network for Comfort and Energy Use in Buildings.

Candido, C., Kim, J., de Dear, R., Thomas, L. (2016). BOSSA: a multidimensional post-occupancy evaluation tool. *Building Research and Information*, 44(2), 214-228. <a href="http://dx.doi.org/10.1080/09613218.2015.1072298">[More Information]</a>

Nathwani, A., de Dear, R. (2016). Comfort Preferences for Passive Chilled Beams Vs Variable Air Volume Vs Under Floor Air Distribution. *Windsor Conference 2016: Making Comfort Relevant*, Windsor: NCEUB Network for Comfort and Energy Use in Buildings.

Kim, J., Candido, C., Thomas, L., de Dear, R. (2016). Desk ownership in the workplace: The effect of non-territorial

working on employee workplace satisfaction, perceived productivity and health. *Building and Environment*, 103, 203-214. <a href="http://dx.doi.org/10.1016/j.buildenv.2016.04.015">[More Information]</a>

Manu, S., Shukla, Y., Rawal, R., Thomas, L., de Dear, R. (2016). Field studies of thermal comfort across multiple climate zones for the subcontinent: India Model for Adaptive Comfort (IMAC). *Building and Environment*, 98, 55-70. <a href="http://dx.doi.org/10.1016/j.buildenv.2015.12.019">[More Information]</a>

Kim, J., de Dear, R., Parkinson, T., Candido, C., Cooper, P., Ma, Z., Saman, W. (2016). Field study of air-conditioning in residential buildings. *Windsor Conference 2016: Making Comfort Relevant*, Windsor: NCEUB Network for Comfort and Energy Use in Buildings.

Candido, C., Zhang, F., Kim, J., de Dear, R., Thomas, L., Stapasson, P., Joko, C. (2016). Impact of workspace layout on occupant satisfaction, perceived health and productivity. *Windsor Conference 2016: Making Comfort Relevant*, Windsor: NCEUB Network for Comfort and Energy Use in Buildings.

Luo, M., de Dear, R., Ji, W., Bin, C., Lin, B., Ouyang, Q., Zhu, Y. (2016). The dynamics of thermal comfort expectations: The problem, challenge and implication. *Building and Environment*, 95, 322-329. <a href="http://dx.doi.org/10.1016/j.buildenv.2015.07.015">[More Information]</a>

Zhang, F., de Dear, R., Candido, C. (2016). Thermal comfort during temperature cycles induced by direct load control events. *Windsor Conference 2016: Making Comfort Relevant*, Windsor: NCEUB Network for Comfort and Energy Use in Buildings.

Zhang, F., de Dear, R., Candido, C. (2016). Thermal comfort during temperature cycles induced by direct load control strategies of peak electricity demand management. *Building and Environment*, 103, 9-20. <a href="http://dx.doi.org/10.1016/j.buildenv.2016.03.020">[More Information]</a>

de Dear, R., Kim, J. (2016). Thermal Comfort Inside and Outside Buildings. In Yukio Tamura, Ryuichiro Yoshie (Eds.), *Advanced Environmental Wind Engineering*, (pp. 89-99). Japan: Springer. <a href="http://dx.doi.org/10.1007/978-4-431-55912-2\_5">[More Information]</a>

Parkinson, T., de Dear, R., Candido, C. (2016). Thermal pleasure in built environments: alliesthesia in different thermoregulatory zones. *Building Research and Information*, 44(1), 20-33. <a href="http://dx.doi.org/10.1080/09613218.2015.1059653">[More Information]</a>

Parkinson, T., de Dear, R. (2016). Thermal pleasure in built environments: Spatial alliesthesia from contact heating. *Building Research and Information*, 44(3), 248-262. <a href="http://dx.doi.org/10.1080/09613218.2015.1082334">[More Information]</a>

## 2015

de Dear, R., Kim, J., Candido, C., Deuble, M. (2015). Adaptive Thermal Comfort in Australian School Classrooms. *Building Research and Information*, 43(3), 383-398. <a href="http://dx.doi.org/10.1080/09613218.2015.991627">[More Information]</a>

Nakayoshi, M., Kanda, M., de Dear, R. (2015). Globe Anemometer. *Boundary-Layer Meteorology*, 155(2), 209-227. <a href="http://dx.doi.org/10.1007/s10546-014-0003-7">[More

Information]</a>

Nakayoshi, M., Kanda, M., Shi, R., de Dear, R. (2015). Outdoor thermal physiology along human pathways: a study using a wearable measurement system. *International Journal of Biometeorology*, 59(5), 503-515. <a href="http://dx.doi.org/10.1007/s00484-014-0864-y">[More Information]</a>

Wang, Z., de Dear, R., Lin, B., Zhu, Y., Ouyang, Q. (2015). Rational selection of heating temperature set points for China's hot summer - Cold winter climatic region. *Building and Environment*, 93(P2), 63-70. <a href="http://dx.doi.org/10.1016/j.buildenv.2015.07.008">[More Information]</a>

Zhang, F., de Dear, R. (2015). Thermal environments and thermal comfort impacts of Direct Load Control air-conditioning strategies in university lecture theatres. *Energy and Buildings*, 86, 233-242. <a href="http://dx.doi.org/10.1016/j.enbuild.2014.10.008">[More Information]</a>

Parkinson, T., de Dear, R. (2015). Thermal Pleasure in Built Environments: Physiology of Alliesthesia. *Building Research and Information*, 43(3), 291-302. <a href="http://dx.doi.org/10.1080/09613218.2015.989662">[More Information]</a>

## 2014

Quang, T., He, C., Knibbs, L., de Dear, R., Morawska, L. (2014). Co-optimisation of indoor environmental quality and energy consumption within urban office buildings. *Energy and Buildings*, 85, 225-234. <a href="http://dx.doi.org/10.1016/j.enbuild.2014.09.021">[More Information]</a>

de Dear, R., Arens, E., Candido, C., Brager, G., Zhang, H., Toftum, J., Zhu, Y., Kurvers, S., Leyten, J., Sekhar, C., et al (2014). Indoor temperatures for optimum thermal comfort and human performance - reply to the letter by Wyon and Wargocki. *Indoor Air*, 24(5), 554-555. <a href="http://dx.doi.org/10.1111/ina.12106">[More Information]</a>

Deuble, M., de Dear, R. (2014). Is it hot in here or is it just me? Validating the post-Occupancy evaluation. *Intelligent Buildings International*, 6(2), 112-134. <a href="http://dx.doi.org/10.1080/17508975.2014.883299">[More Information]</a>

de Dear, R., Kim, J., Candido, C., Deuble, M. (2014). Summertime thermal comfort in Australian school classrooms. *8th Windsor Conference: Counting the Cost of Comfort in a Changing World*, Windsor, UK: NCEUB Network for Comfort and Energy Use in Buildings. <a href="http://dx.doi.org/10.13140/2.1.2759.5207">[More Information]</a>

Kim, J., de Dear, R. (2014). The effects of contextual differences on office workers' perception of indoor environment. *13th International Conference on Indoor Air Quality and Climate (Indoor Air 2014)*, Hong Kong: The University of Hong Kong.

Zhang, F., de Dear, R., Candido, C. (2014). Thermal Comfort during Direct Load Control Events in University Lecture Theatres. *13th International Conference on Indoor Air Quality and Climate (Indoor Air 2014)*, Hong Kong: The University of Hong Kong.

## 2013

Parkinson, T., Candido, C., de Dear, R. (2013). 'Comfort Chimp': a Multi-Platform IEQ Questionnaire Development

Environment. *CLIMA 2013: 11th REHVA World Congress and 8th International Conference on IAQVEC*, Prague, Czech Republic: Society of Environmental Engineering.

Saman, W., Boland, J., Pullen, S., de Dear, R., Soebarto, V., Miller, W., Pocock, B., Belusko, M., Bruno, F., Whaley, D., Candido, C., Deuble, M., et al (2013). *A framework for adaptation of Australian households to heat waves*. Gold Coast, Queensland: National Climate Change Adaptation Research Facility NCCARF.

Cabrera, D., Miranda Jofre, L., Crow, R., de Dear, R. (2013). Audio and Acoustic design of the University of Sydney's Indoor Environmental Quality Laboratory. *21st International Congress on Acoustics 2013*, New York: Acoustical Society of America.

Taleghani, M., Tenpierik, M., van den Dobbelsteen, A., de Dear, R. (2013). Energy use impact of and thermal comfort in different urban block types in the Netherlands. *Energy and Buildings*, 67, 166-175. <a href="http://dx.doi.org/10.1016/j.enbuild.2013.08.024">[More Information]</a>

Kim, J., de Dear, R., Candido, C., Zhang, H., Arens, E. (2013). Gender differences in office occupant perception of indoor environmental quality (IEQ). *Building and Environment*, 70, 245-256. <a href="http://dx.doi.org/10.1016/j.buildenv.2013.08.022">[More Information]</a>

Candido, C., de Dear, R., Thomas, L., Kim, J. (2013). Introducing BOSSA: The Building Occupants Survey System Australia. *The Future of HVAC 2013*, Melbourne, Vic, Australia: Australian Institution of Refrigeration, Airconditioning and Heating.

de Dear, R., Akimoto, T., Arens, E., Brager, G., Candido, C., Cheong, D., Li, B., Nishihara, N., Sekhar, C., Tanabe, S., et al (2013). Progress in thermal comfort research over the last twenty years. *Indoor Air*, 23(6), 442-461. <a href="http://dx.doi.org/10.1111/ina.12046">[More Information]</a>

de Dear, R., Candido, C., Saman, W., Soebarto, V., Boland, J., Belusko, M., Bennetts, H., Ridley, B., Deuble, M. (2013). The impact of climate change on external and internal design conditions for air conditioning loads estimation. *The Future of HVAC 2013*, Melbourne, Vic, Australia: Australian Institution of Refrigeration, Airconditioning and Heating.

de Dear, R., Nathwani, A., Candido, C., Cabrera, D. (2013). The next generation of experientially realistic lab-based research: The University of Sydney's Indoor Environmental Quality Laboratory. *Architectural Science Review*, 56(1), 83-92. <a href="http://dx.doi.org/10.1080/00038628.2012.745807">[More Information]</a>

de Dear, R., Nicol, F., Roaf, S. (2013). The wicked problem of designing for comfort in a rapidly changing world. *Architectural Science Review*, 56(1). <a href="http://dx.doi.org/10.1080/00038628.2012.753783">[More Information]</a>

Kim, J., Deuble, M., Candido, C., de Dear, R. (2013). Thermal Comfort in a Large Property Portfolio: What can we do before surrendering to AC? *CLIMA 2013: 11th REHVA World Congress and 8th International Conference on IAQVEC*, Prague, Czech Republic: Society of Environmental Engineering.

Kim, J., de Dear, R. (2013). Workspace satisfaction: The privacy-communication trade-off in open-plan offices. *Journal of Environmental Psychology*, 36, 18-26. <a href="http://dx.doi.org/10.1016/j.jenvp.2013.06.007">[More Information]</a>

## 2012

Roussac, A., de Dear, R. (2012). A preliminary evaluation of the energy saving potential of automated near-real-time feedback for operators of commercial office buildings. *Healthy Buildings 2012 10th International Conference*, Brisbane, Australia: Queensland University of Technology.

Candido, C., de Dear, R., Thomas, L., Kim, J., Parkinson, T. (2012). BOSSA - Buildings Occupants Survey System Australia. *The 46th Annual Conference of the Architectural Science Association - Building on Knowledge: Theory and Practice*, Brisbane: Griffith University.

Nakayoshi, M., Shi, R., Kanda, M., de Dear, R. (2012). Development of Wearable Measurement System for Thermal Physiology. *ICUC8 8th International Conference on Urban Climates*, Dublin, Ireland: International Association for Urban Climate.

de Dear, R. (2012). Did someone set the air on Arctic? The widespread problem of over-air-conditioning. *HVAC&R Research*, 18(6), 1045-1046. <a href="http://dx.doi.org/10.1080/10789669.2012.736247">[More Information]</a>

Candido, C., de Dear, R., Ohba, M. (2012). Effects of artificially induced heat acclimatization on subjects' thermal and air movement preferences. *Building and Environment*, 49(1), 251-258. <a href="http://dx.doi.org/10.1016/j.buildenv.2011.09.032">[More Information]</a>

Candido, C., de Dear, R. (2012). From thermal boredom to thermal pleasure: A brief literature review. *Ambiente Construido*, 12(1), 81-90.

Deuble, M., de Dear, R. (2012). Green occupants for green buildings: The Missing link? *Building and Environment*, 56, 21-27. <a href="http://dx.doi.org/10.1016/j.buildenv.2012.02.029">[More Information]</a>

Kim, J., de Dear, R. (2012). How does occupant perception on specific IEQ factors affect overall satisfaction? *7th Windsor Conference*, London, UK: Network for Comfort and Energy Use in Buildings.

Kim, J., de Dear, R. (2012). Identifying substantive IEQ factors for efficient building management. *The 46th Annual Conference of the Architectural Science Association - Building on Knowledge: Theory and Practice*, Brisbane: Griffith University.

Kim, J., de Dear, R. (2012). Impact of different building ventilation modes on occupant expectations of the main IEQ factors. *Building and Environment*, 57, 184-193. <a href="http://dx.doi.org/10.1016/j.buildenv.2012.05.003">[More Information]</a>

Nakayoshi, M., Shi, R., Kanda, M., de Dear, R. (2012). Investigation of Outdoor Thermal Physiology along Subjects' Pathway. *ICUC8 8th International Conference on Urban Climates*, Dublin, Ireland: International Association for Urban Climate.

Deuble, M., de Dear, R. (2012). Mixed-mode buildings: A double standard in occupants' comfort expectations. *Building and Environment*, 54, 53-60. <a href="http://dx.doi.org/10.1016/j.buildenv.2012.01.021">[More Information]</a>

Kim, J., de Dear, R. (2012). Nonlinear relationships between individual IEQ factors and overall workspace satisfaction. *Building and Environment*, 49(1), 33-40. <a href="http://dx.doi.org/10.1016/j.buildenv.2011.09.022">[More Information]</a>

Information]</a>

Parkinson, T., de Dear, R., Candido, C. (2012). Perception of Transient Thermal Environments: Pleasure and Alliesthesia. *7th Windsor Conference*, London, UK: Network for Comfort and Energy Use in Buildings. <a href="http://dx.doi.org/10.1109/PDCAT.2010.19">[More Information]</a>

Roussac, A., de Dear, R. (2012). Simple, timely and actionable feedback improves commercial office building performance. *7th Windsor Conference*, London, UK: Network for Comfort and Energy Use in Buildings.

Nathwani, A., de Dear, R., Candido, C. (2012). The Missing Link - The Next Generation IEQ Lab with Ultimate Flexibility. *7th Windsor Conference*, London, UK: Network for Comfort and Energy Use in Buildings.

de Dear, R., Arens, E., Zhang, H. (2012). Thermal Environmental Conditions for Human Occupancy. *ASHRAE Addendum | Thermal Environmental Conditions for Human Occupancy*, Addendum d to ANSI/ASHRAE Standard 55-2010, (pp. 1 - 4). Atlanta, United States of America: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc..

Jendritzky, G., de Dear, R., Havenith, G. (2012). UTCI-Why another thermal index? *International Journal of Biometeorology*, 56(3), 421-428. <a href="http://dx.doi.org/10.1007/s00484-011-0513-7">[More Information]</a>

Psikuta, A., Fiala, D., Laschewski, G., Jendritzky, G., Richards, M., BÅ, azejczyk, K., Mekjavic, I., Rintamaki, H., de Dear, R., Havenith, G. (2012). Validation of the Fiala multi-node thermophysiological model for UTCI application. *International Journal of Biometeorology*, 56(Special Issue (UTCI)), 443-460. <a href="http://dx.doi.org/10.1007/s00484-011-0450-5">[More Information]</a>

## 2011

Roussac, A., Steinfeld, J., de Dear, R. (2011). A preliminary evaluation of two strategies for raising indoor air temperature setpoints in office buildings. *Architectural Science Review*, 54(ANZAScA special issue), 148-156. <a href="http://dx.doi.org/10.1080/00038628.2011.582390">[More Information]</a>

Candido, C., de Dear, R., Lamberts, R. (2011). Combined Thermal Acceptability and Air Movement Assessments in a Hot Humid Climate. *Building and Environment*, 46(2), 379-395. <a href="http://dx.doi.org/10.1016/j.buildenv.2010.07.032">[More Information]</a>

Lin, T., de Dear, R., Hwang, R. (2011). Effect of Thermal Adaptation on Seasonal Outdoor Thermal Comfort. *International Journal of Climatology*, 31(2), 302-312. <a href="http://dx.doi.org/10.1002/joc.2120">[More Information]</a>

Deuble, M., de Dear, R. (2011). Mixed-mode Buildings: A Double Standard in Comfort. *The 12th International Conference on Indoor Quality and Climate (INDOOR AIR 2011)*, USA: International Society of Indoor Air Quality and Climate (ISIAQ).

Roussac, A., de Dear, R., Hyde, R. (2011). Quantifying the 'human factor' in office building energy efficiency: a mixed-method approach. *Architectural Science Review*, 54(ANZAScA special issue), 124-131. <a href="http://dx.doi.org/10.1080/00038628.2011.582371">[More Information]</a>

de Dear, R. (2011). Recent enhancements to the adaptive

comfort standard in ASHRAE 55-2010. *45th Annual Conference of the Australian and New Zealand Architectural Science Association (ANZAScA 2011)*, Sydney, Australia: Faculty of Architecture Design and Planning, The University of Sydney. <a href="http://dx.doi.org/10.1109/AICCSA.2010.5587046">[More Information]</a>

de Dear, R. (2011). Revisiting an Old Hypothesis of Human Thermal Perception: Alliesthesia. *Building Research and Information*, 39(2), 108-117. <a href="http://dx.doi.org/10.1080/09613218.2011.552269">[More Information]</a>

Roussac, A., Steinfeld, J., de Dear, R. (2011). Revisiting summer setpoint strategies for conventional air conditioned office buildings. *45th Annual Conference of the Australian and New Zealand Architectural Science Association (ANZAScA 2011)*, Sydney, Australia: Faculty of Architecture Design and Planning, The University of Sydney. <a href="http://dx.doi.org/10.1109/ISCAS.2009.5118179">[More Information]</a>

Candido, C., Lamberts, R., de Dear, R., Bittencourt, L., de Vecchi, R. (2011). Towards a Brazilian Standard for Naturally Ventilated Buildings: Guidelines for Thermal and Air Movement Acceptability. *Building Research and Information*, 39(2), 145-153. <a href="http://dx.doi.org/10.1080/09613218.2011.557858">[More Information]</a>

## 2010

Roussac, A., Steinfeld, J., de Dear, R. (2010). A preliminary evaluation of two strategies for raising indoor temperature setpoints in office buildings. *44th Annual Conference of the Australian and New Zealand Architectural Science Association (ANZAScA 2010)*, New Zealand: UNITEC Institute of Technology.

Thomas, L., de Dear, R., Rawal, R., Lall, A., Thomas, P. (2010). Air Conditioning, Comfort and Energy in India's Commercial Building Sector. *6th Windsor Conference: Adapting to Change: New Thinking on Comfort*, London: Network for Comfort and Energy Use in Buildings.

Candido, C., de Dear, R., Lamberts, R., Bittencourt, L. (2010). Air movement acceptability limits and thermal comfort in Brazil's hot humid climate zone. *Building and Environment*, 45(1), 222-229. <a href="http://dx.doi.org/10.1016/j.buildenv.2009.06.005">[More Information]</a>

Candido, C., Lamberts, R., Bittencourt, L., de Dear, R. (2010). Aplicabilidade dos limites da velocidade do ar para efeito de conforto termico em climas quentes e umidos. *Ambiente Construido*, 10(4), 59-68.

Arens, E., Humphreys, M., de Dear, R., Zhang, H. (2010). Are 'Class A' Temperature Requirements Realistic or Desirable? *Building and Environment*, 45(1), 4-10. <a href="http://dx.doi.org/10.1016/j.buildenv.2009.03.014">[More Information]</a>

Candido, C., de Dear, R., Lamberts, R., Bittencourt, L. (2010). Cooling exposure in hot humid climates: are occupants 'addicted'? *Architectural Science Review*, 53(1), 59-64. <a href="http://dx.doi.org/10.3763/asre.2009.0100">[More Information]</a>

Knibbs, L., de Dear, R., Morawska, L. (2010). Effect of Cabin Ventilation Rate on Ultrafine Particle Exposure Inside Automobiles. *Environmental Science and Technology*, 44(9), 3546-3551. <a href="http://dx.doi.org/10.1021/es9038209">[More

Information]

Knibbs, L., de Dear, R. (2010). Exposure to ultrafine particles and PM<sub>2.5</sub> in four Sydney transport modes. *Atmospheric environment*, 44(26), 3224-3227. <a href="http://dx.doi.org/10.1016/j.atmosenv.2010.05.026">[More Information]

Deuble, M., de Dear, R. (2010). Green Occupants for Green Buildings: The Missing Link? *6th Windsor Conference: Adapting to Change: New Thinking on Comfort*, London: Network for Comfort and Energy Use in Buildings.

Drake, S., de Dear, R., Alessi, A., (2010). Occupant comfort in naturally ventilated and mixed-mode spaces within air-conditioned offices. *Architectural Science Review*, 53(3), 297-306. <a href="http://dx.doi.org/10.3763/asre.2010.0021">[More Information]

Roussac, A., de Dear, R., Hyde, R. (2010). Quantifying the 'human factor' in office building energy efficiency: A mixed-method approach. *44th Annual Conference of the Australian and New Zealand Architectural Science Association (ANZAScA 2010)*, New Zealand: UNITEC Institute of Technology.

de Dear, R. (2010). Thermal Comfort In Natural Ventilation - A Neurophysiological Hypothesis. *6th Windsor Conference: Adapting to Change: New Thinking on Comfort*, London: Network for Comfort and Energy Use in Buildings.

de Dear, R., Brager, G. (2010). Thermal Environmental Conditions for Human Occupancy. *ANSI/ASHRAE Standard 55-2010 | Thermal Environmental Conditions for Human Occupancy*, (Supersedes ANSI/ASHRAE Standard 55-2004), (pp. 1 - 37). Atlanta, United States of America: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc..

Candido, C., Lamberts, R., de Dear, R., Bittencourt, L. (2010). Towards a Brazilian standard for naturally ventilated buildings: guidelines for thermal and air movement acceptability. *6th Windsor Conference: Adapting to Change: New Thinking on Comfort*, London: Network for Comfort and Energy Use in Buildings.

## 2009

Jendritzky, G., de Dear, R. (2009). Adaptation and Thermal Environment. In Kristie L. Ebi, Ian Burton, Glenn R. McGregor (Eds.), *Biometeorology for Adaptation to Climate Variability and Change*, (pp. 9-32). Netherlands: Springer Science+Business Media. <a href="http://dx.doi.org/10.1007/978-1-4020-8921-3\_2">[More Information]

Candido, C., de Dear, R., Lamberts, R., Bittencourt, L. (2009). Air movement preference and thermal comfort: A survey in classrooms during summer season in Brazil. *PLEA 2009 - Architecture Energy and the Occupants Perspective*, Canada: Les Presses de l'Université Laval.

Candido, C., Lamberts, R., Bittencourt, L., de Dear, R. (2009). Aplicabilidade dos limites da velocidade do ar para efeito de conforto térmico em climas quentes e úmidos. *X Encontro Nacional de Conforto no Ambiente Construído*, Natal, Brazil: ANTAC.

Knibbs, L., de Dear, R., Atkinson, S. (2009). Field study of air change and flow rate in six automobiles. *Indoor Air*, 19, 303-313. <a href="http://dx.doi.org/10.1111/j.1600-0668.2009.00593.x">[More Information]

Drake, S., de Dear, R., Alessio, A., (2009). Occupant comfort in naturally ventilated and mixed-mode spaces within air-conditioned offices. *43rd Annual Conference of the Australian and New Zealand Architectural Science Association ANZAScA*

2009, Australia: University of Tasmania.

Knibbs, L., de Dear, R., Morawska, L., Mengersen, K. (2009). On-road ultrafine particle concentration in the M5 East road tunnel, Sydney, Australia. *Atmospheric environment*, 43, 3510-3519. <a href="http://dx.doi.org/10.1016/j.atmosenv.2009.04.029">[More Information]

Lin, T., de Dear, R., Matzarakis, A., Hwang, R. (2009). Prediction of thermal acceptability in hot-humid outdoor environments in Taiwan. *7th International Conference on Urban Climate: ICUC-7*, Yokohama, Japan: Tokyo Institute of Technology.

de Dear, R. (2009). The Theory of Thermal Comfort in Naturally ventilated Indoor Environments - "The Pleasure Principle". *International Journal of Ventilation*, 8(3), 243-250.

de Dear, R. (2009). Thermal comfort in natural ventilation - a neurophysiological hypothesis. *43rd Annual Conference of the Australian and New Zealand Architectural Science Association ANZAScA 2009*, Australia: University of Tasmania.

Peeters, L., de Dear, R., Hensen, J., D'haeseler, W. (2009). Thermal comfort in residential buildings: Comfort values and scales for building energy simulation. *Applied Energy*, 86(5), 772-780. <a href="http://dx.doi.org/10.1016/j.apenergy.2008.07.011">[More Information]

de Dear, R. (2009). Towards a theory of adaptive thermal comfort - the pleasure principle. *Ninth International Healthy Buildings Conference and Exhibition*, Syracuse, NY.

## 2008

Candido, C., Lamberts, R., Bittencourt, L., de Dear, R. (2008). Aceitabilidade do movimento do ar e conforto térmico em edificações naturalmente ventiladas em Maceió/AL (Air movement acceptability inside naturally ventilated buildings in Maceio city). *XII Encontro Nacional de Tecnologia do Ambiente Construído - ENTAC (12th National Meeting on Technology of Built Environment)*.

Ward, J., Wall, J., West, S., de Dear, R. (2008). Beyond Comfort - Managing the Impact of HVAC Control on the Outside World. *5th Windsor Conference: Air-Conditioning & The Low Carbon Cooling Challenge*, London: Network for Comfort and Energy Use in Buildings.

Vaneckova, P., Beggs, P., de Dear, R., McCracken, K. (2008). Effect of temperature on mortality during the six warmer months in Sydney, Australia, between 1993 and 2004. *Environmental Research*, 108(3), 361-369. <a href="http://dx.doi.org/10.1016/j.envres.2008.07.015">[More Information]

de Dear, R. (2008). Heat Waves, Thermal Discomfort and Residential Air Conditioning: The Problem of Peak Electricity Demand. *18th International Congress of Biometeorology ICB2008: Harmony within Nature*.

Candido, C., de Dear, R., Lamberts, R., Bittencourt, L. (2008). Natural ventilation and thermal comfort: air movement acceptability inside naturally ventilated buildings in Brazilian hot humid zone. *5th Windsor Conference: Air-Conditioning & The Low Carbon Cooling Challenge*, London: Network for Comfort and Energy Use in Buildings.

Knibbs, L., de Dear, R., Morawska, L., Atkinson, S. (2008). On-road quantification of the key characteristics of automobile HVAC systems in relation to in-cabin submicrometer particle pollution. *The 11th International Conference on Indoor Air Quality and Climate (Indoor Air 2008)*, Denmark: International Society of Indoor Air Quality and Climate (ISIAQ).

de Dear, R., White, S. (2008). Residential air conditioning, comfort and demand response. *The 11th International Conference on Indoor Air Quality and Climate (Indoor Air 2008)*, Denmark: International Society of Indoor Air Quality and Climate (ISIAQ).

de Dear, R., White, S. (2008). Residential air conditioning, thermal comfort and peak electricity demand management. *5th Windsor Conference: Air-Conditioning & The Low Carbon Cooling Challenge*, London: Network for Comfort and Energy Use in Buildings.

Jendritzky, G., Weihs, P., Batchvarova, E., Havenith, G., de Dear, R. (2008). The Universal Thermal Climate Index UTCI: Goal and State of COST Action 730 and ISB Commission 6. *5th Windsor Conference: Air-Conditioning & The Low Carbon Cooling Challenge*, London: Network for Comfort and Energy Use in Buildings.

de Dear, R. (2008). Thermal Comfort, Residential Air Conditioning and Peak Electricity Demand in Australia. *International Symposium on the Interaction Human and Building Environment*.

## 2007

Knibbs, L., de Dear, R., Morawska, L., Coote, P. (2007). A simple and inexpensive dilution system for the TSI 3007 condensation particle counter. *Atmospheric environment*, 41, 4553-4557. <a href="http://dx.doi.org/10.1016/j.atmosenv.2007.03.019">[More Information]</a>

Hart, M., de Dear, R., Beggs, P. (2007). A synoptic climatology of pollen concentrations during the six warmest months in Sydney, Australia. *International Journal of Biometeorology*, 51(3), 209-220. <a href="http://dx.doi.org/10.1007/s00484-006-0053-8">[More Information]</a>

de Dear, R. (2007). Adaptive Comfort Applications in Australia and Impacts on Building Energy Consumption. *6th International Conference on Indoor Air Quality, Ventilation and Energy Conservation in Buildings (IAQVEC 2007)*. Elsevier.

Fabbian, D., de Dear, R., Lelleyett, S. (2007). Application of Artificial Neural Network Forecasts to Predict Fog at Canberra International Airport. *Weather and Forecasting*, 22(2), 372-381. <a href="http://dx.doi.org/10.1175/WAF980.1">[More Information]</a>

## 2006

Hart, M., de Dear, R., Hyde, R. (2006). A Synoptic Climatology of Tropospheric Ozone Episodes in Sydney, Australia. *International Journal of Climatology*, 26(12), 1635-1649. <a href="http://dx.doi.org/10.1002/joc.1332">[More Information]</a>

de Dear, R. (2006). Adapting buildings to a changing climate: but what about the occupants? *Building Research and Information*, 34(1), 78-81.

van der Linden, A., Boerstra, A., Raue, A., Kurvers, S., de Dear, R. (2006). 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*, 38(1), 8-17. <a href="http://dx.doi.org/10.1016/j.enbuild.2005.02.008">[More Information]</a>

de Dear, R. (2006). Adaptive thermal comfort in building management and performance. *Healthy Buildings 2006*, United States: International Society of Indoor Air Quality and Climate (ISIAQ).

Shitzer, A., de Dear, R. (2006). Inconsistencies in the "New" Windchill chart at low wind speeds. *Journal of Applied Meteorology and Climatology*, 45(5), 787-790. <a href="http://dx.doi.org/10.1175/JAM2373.1">[More Information]</a>

Goto, T., Toftum, J., de Dear, R., Fanger, P. (2006). Thermal sensation and thermophysiological responses to metabolic step-changes. *International Journal of Biometeorology*, 50(5), 323-332. <a href="http://dx.doi.org/10.1007/s00484-005-0016-5">[More Information]</a>

## 2005

Erlandson, T., Cena, K., de Dear, R. (2005). Gender differences and non-thermal factors in thermal comfort of office occupants in a hot-arid climate. In Yutaka Tochihara, Tadakatsu Ohnaka (Eds.), *Environmental Ergonomics: The Ergonomics of Human Comfort, Health and Performance in the Thermal Environment (Elsevier Ergonomics Book Series: Volume 3)*, (pp. 263-268). United Kingdom: Elsevier. <a href="http://dx.doi.org/10.1016/S1572-347X(05)80043-6">[More Information]</a>

de Dear, R., Spagnolo, J. (2005). Thermal comfort in outdoor and semi-outdoor environments. In Yutaka Tochihara, Tadakatsu Ohnaka (Eds.), *Environmental Ergonomics: The Ergonomics of Human Comfort, Health and Performance in the Thermal Environment (Elsevier Ergonomics Book Series: Volume 3)*, (pp. 269-276). United Kingdom: Elsevier. <a href="http://dx.doi.org/10.1016/S1572-347X(05)80044-8">[More Information]</a>

## 2004

Hart, M., de Dear, R., Hyde, R. (2004). A climatology of photochemical smog episodes in Sydney Australia. *13th Conference on the Applications of Air Pollution Meteorology with the Air and Waste Management Association*, USA: Air and Waste Management Association.

Brager, G., Paliaga, G., de Dear, R. (2004). Operable Windows, Personal Control and Occupant Comfort. *A S H R A E Transactions*, 110(2), 17-35.

Brager, G., Paliaga, G., de Dear, R. (2004). *The Effect of Personal Control and Thermal Variability on Comfort and Acceptability*.

de Dear, R. (2004). Thermal comfort in practice. *Indoor Air*, 14(SUPPL. 7), 32-39. <a href="http://dx.doi.org/10.1111/j.1600-0668.2004.00270.x">[More Information]</a>

Hart, M., de Dear, R. (2004). Weather sensitivity in household appliance energy end-use. *Energy and Buildings*, 36(2), 161-174. <a href="http://dx.doi.org/10.1016/j.enbuild.2003.10.009">[More Information]</a>

## 2003

Spagnolo, J., de Dear, R. (2003). A Field Study of Thermal Comfort in Outdoor and Semi-Outdoor Environments in Subtropical Sydney Australia. *Building and Environment*, 38, 721-738. <a href="http://dx.doi.org/10.1016/S0360-1323(02)00209-3">[More Information]</a>

Spagnolo, J., de Dear, R. (2003). A Human Thermal Climatology of Subtropical Sydney. *International Journal of Climatology*, 23, 1383-1395. <a href="http://dx.doi.org/10.1002/joc.939">[More Information]</a>

Bergman, B., Morawska, L., de Dear, R., Cena, K. (2003). A review of quantitative approaches to linking human productivity to indoor air quality. *CIB International Conference on Smart*

and Sustainable Built Environment (SASBE 2003), Australia: Queensland University of Technology.

Luther, M., de Dear, R. (2003). *Applying the Adaptive Model of Comfort*.

de Dear, R. (2003). *Design Guidelines for Thermally Acceptable Outdoor and Semi-Outdoor Micro-Climates*.

Erlandson, T., Cena, K., de Dear, R., Havenith, G. (2003). Environmental and human factors influencing thermal comfort of office occupants in hot-humid and hot-arid climates. *Ergonomics*, 46(6), 616-628. <a href="http://dx.doi.org/10.1080/0014013031000085707">[More Information]</a>

Brager, G., de Dear, R. (2003). Historical and Cultural Influences on Comfort Expectations. In Raymond Cole, Richard Lorch (Eds.), *Buildings, Culture and Environment: Informing Local & Global Practices*, (pp. 177-201). United Kingdom: Wiley-Blackwell Publishing. <a href="http://dx.doi.org/10.1002/9780470759066.ch11">[More Information]</a>

Hart, M., de Dear, R. (2003). Synoptic signatures behind photochemical smog episodes in Sydney. *National Clean Air Conference 2003: Linking Air Pollution Science, Policy and Management*.

Morgan, C., de Dear, R. (2003). Weather, clothing and thermal adaptation to indoor climate. *Climate Research*, 24(3), 267-284.

## 2002

Hart, M., de Dear, R. (2002). The Impacts of outdoor weather on residential energy consumption. *36th Annual Conference of the Australian and New Zealand Architectural Association*, Geelong: Deakin University Geelong.