CBE Publications & Report List
October 2018

Papers that summarize research by CBE and affiliated institutions have appeared in the following journals, trade magazines, and conference proceedings. Many of these publications are also available from the eScholarship Repository, on-line at http://escholarship.org/uc/cedr_cbe.

2018


www.escholarship.org/uc/item/2mk3n264 NEW

www.escholarship.org/uc/item/7tg2r8v3 NEW


www.escholarship.org/uc/item/6c27x0m9 NEW

www.escholarship.org/uc/item/0dh6c67d NEW

www.escholarship.org/uc/item/58m331fr NEW

www.escholarship.org/uc/item/9jk1d795

www.escholarship.org/uc/item/80b3458w


www. escholarship.org/uc/item/89m0z34x NEW

www.escholarship.org/uc/item/0m91d1t2

https://doi.org/10.1016/j.buildenv.2018.01.005  
www.escholarship.org/uc/item/0x58c3k8 NEW


Duarte, C., P. Raftery, S. Schiavon, and F. Bauman. 2018. How high can you go? Determining the highest supply temperature for high thermal mass radiant cooling systems in California. Accepted for publication in Proceedings of 4th *International Conference on Building Energy Environment (COBEE 2018).* Melbourne, Australia, February 5-9th. www.escholarship.org/uc/item/0s06q03g


2017


Raftery, P., C. Duarte, S. Schiavon, and F. Bauman. 2017. A new control strategy for high thermal mass radiant systems. Accepted for publication in Proceedings of Building Simulation Conference 2017. San Francisco, California, August 7-9th. [www.escholarship.org/uc/item/7b4909sf](www.escholarship.org/uc/item/7b4909sf)


Karmann, C., S. Schiavon, and F. Bauman. 2016. Thermal comfort in buildings using radiant vs. all-air systems: A critical review. *Building and Environment*. October. [www.escholarship.org/uc/item/1vb3d1j8](http://www.escholarship.org/uc/item/1vb3d1j8)

Schiavon, S., B. Yang, Y. Donner, V. Chang, and W. Nazaroff. 2016. Thermal comfort, perceived air quality and cognitive performance when personally controlled air movement is used by tropically acclimatized persons. *Indoor Air*. October. [http://dx.doi.org/10.1111/ina.12352](http://dx.doi.org/10.1111/ina.12352)


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**2015**


Schiavon, S., F. Bauman, B. Tully, and J. Rimmer. 2015. Chilled ceiling and displacement ventilation system: Laboratory study with high cooling load. *Science and Technology for the Built Environment* (Previously *HVAC&R*). [http://dx.doi.org/10.1080/23744731.2015.1034061](http://dx.doi.org/10.1080/23744731.2015.1034061) [http://escholarship.org/uc/item/58m8302p](http://escholarship.org/uc/item/58m8302p)


2014


http://escholarship.org/uc/item/88z3g017


https://escholarship.org/uc/item/4488d1b8)


2013


2012


[http://escholarship.org/uc/item/1jz8260r](http://escholarship.org/uc/item/1jz8260r)

[http://escholarship.org/uc/item/0vw9f0hq](http://escholarship.org/uc/item/0vw9f0hq)

[http://dx.doi.org/10.1080/09613218.2011.552703](http://dx.doi.org/10.1080/09613218.2011.552703)  

[http://escholarship.org/uc/item/5w53c7kr](http://escholarship.org/uc/item/5w53c7kr)

[http://escholarship.org/uc/item/9pq9w5r2](http://escholarship.org/uc/item/9pq9w5r2)

[http://www.escholarship.org/uc/item/2kd5d469](http://www.escholarship.org/uc/item/2kd5d469)

[http://escholarship.org/uc/item/0tp7v717](http://escholarship.org/uc/item/0tp7v717)

[http://escholarship.org/uc/item/2kw2g6rs](http://escholarship.org/uc/item/2kw2g6rs)

[http://escholarship.org/uc/item/30h937bh](http://escholarship.org/uc/item/30h937bh)

[www.escholarship.org/uc/item/1c1216x5](http://www.escholarship.org/uc/item/1c1216x5)

[https://escholarship.org/uc/item/29m3h3tc](https://escholarship.org/uc/item/29m3h3tc)

2010

[http://escholarship.org/uc/item/7c8347dk](http://escholarship.org/uc/item/7c8347dk)

[http://escholarship.org/uc/item/1p92f2pm](http://escholarship.org/uc/item/1p92f2pm)

[www.escholarship.org/uc/item/96z7067c](http://www.escholarship.org/uc/item/96z7067c)


2009


2008


Arens, E., D. Auslander, and C. Huizenga. 2008. Demand response enabling technology development. CBE Report to CEC Public Interest Energy Research (PIER) Program. [http://escholarship.org/uc/item/5tw6f01n](http://escholarship.org/uc/item/5tw6f01n)

2007

Do, A., W. Burke, D. Auslander, R. White, and P. Wright. 2007. Technical review of residential programmable communication thermostat implementation for Title 24, 2008. Draft Report Version 0.1, Center for Environmental Design Research, University of California, November. [https://escholarship.org/uc/item/43q4s9vj](https://escholarship.org/uc/item/43q4s9vj)

Webster, T., P. Linden, F. Buhl, and F. Bauman. 2007. Energy performance of underfloor air distribution systems. Final Project Report submitted to California Energy Commission (CEC) Public Interest Energy Research (PIER) Program. Center for the Built Environment, University of California, Berkeley, CA, April. [https://escholarship.org/uc/item/1pm8b02s](https://escholarship.org/uc/item/1pm8b02s)


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**2006**


**2005**


2004


2003


Zhang, H. 2003. Human thermal sensation and comfort in transient and non-uniform thermal environments, PhD Thesis, Center for Environmental Design Research (CEDR), University of California at Berkeley, December. [http://www.escholarship.org/uc/item/11m0n1wt](http://www.escholarship.org/uc/item/11m0n1wt)


Lehrer, D., and F. Bauman. 2003. Hype vs. reality: new research findings on underfloor air systems. Greenbuild International Conference and Exposition, Pittsburgh, November, 12 pp. [http://www.escholarship.org/uc/item/2bb1c9t0](http://www.escholarship.org/uc/item/2bb1c9t0)

Tang, S., C. C. Federspiel, and D. M. Auslander. 2003. Pulsed-type ultrasonic anemometer based on a double FFT procedure, Proceedings, IEEE Sensors 2003. October. [https://escholarship.org/uc/item/6mf6p0z8](https://escholarship.org/uc/item/6mf6p0z8)


Webster, T., and A. Barth. 2003. Development of fan diagnostics methods and protocols for short term monitoring. Final Report, Berkeley, CEC/PIER HPCBS# ESP2.2T4c, 19 pp. [https://escholarship.org/uc/item/5q46x5km](https://escholarship.org/uc/item/5q46x5km)

### 2002

Webster, T., R. Bannon, and D. Lehrer. 2002. Teledesic broadband center field study. CBE Summary Report, April. [https://escholarship.org/uc/item/84m9s48s](https://escholarship.org/uc/item/84m9s48s)


[http://www.escholarship.org/uc/item/8jq4144v](http://www.escholarship.org/uc/item/8jq4144v)


[www.escholarship.org/uc/item/9476v10z](http://www.escholarship.org/uc/item/9476v10z)

[www.escholarship.org/uc/item/2117f2rt](http://www.escholarship.org/uc/item/2117f2rt)


[http://escholarship.org/uc/item/2pn696vv](http://escholarship.org/uc/item/2pn696vv)

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### 2001


[http://www.escholarship.org/uc/item/5j67v91m](http://www.escholarship.org/uc/item/5j67v91m)

[http://escholarship.org/uc/item/2217063q](http://escholarship.org/uc/item/2217063q)

[https://escholarship.org/uc/item/15r7r3tc](https://escholarship.org/uc/item/15r7r3tc)


[http://www.escholarship.org/uc/item/62h7b795](http://www.escholarship.org/uc/item/62h7b795)


2000


Webster, T., F. Bauman, and E. Ring. 2000. Supply fan energy use in pressurized underfloor air distribution systems. Center for the Built Environment, University of California, Berkeley, October. https://escholarship.org/uc/item/1xm4d8f9


1999

https://escholarship.org/uc/item/2rx7w394

https://escholarship.org/uc/item/2hw1t5zf

http://escholarship.org/uc/item/5rx3p5w4


https://escholarship.org/uc/item/55c7r2hz


https://escholarship.org/uc/item/66n7n302


http://www.escholarship.org/uc/item/94m840fb


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