

REPRESENTATIVE JOURNAL PUBLICATIONS FROM NSERC SOLAR BUILDINGS RESEARCH NETWORK

1. Candanedo, J.A. & Athienitis, A.K. (2011). Predictive control of radiant floor heating and solar-source heat pump operation in a solar house. *HVAC & R Research*, 17(3), 235-256.
2. Hoicka, C. E. & Rowlands, I. H. (2011). Solar and wind resource complementarity: Advancing options for renewable electricity integration in Ontario, Canada. *Renewable Energy*, 36 (1), 97-107.
3. Karava, P., Stathopoulos, T. & Athienitis, A. K. (2011). Airflow assessment in cross-ventilated buildings with operable façade elements. *Building and Environment*, 45 (1), 266-279.
4. Candanedo, J.A., Allard, A. & Athienitis, A.K. (2011). Predictive control of radiant floor heating and transmitted irradiance in a room with high solar gains, *ASHRAE Trans.*, 117(2).
5. Doiron, M., O'Brien, W. & Athienitis, A.K. (2011). Energy performance, thermal comfort, and lessons learned from a near net-zero energy house, *ASHRAE Trans.*, 117(2).
6. O'Brien, W., Athienitis, A., Kesik, T. (2011). Parametric Analysis to support the integrated design and performance modelling of net-zero energy houses. *ASHRAE Transactions*. 117(1).
7. Athienitis, A. K., Bambara, J., O'Neill, B. & Faille, J. (2011). A Prototype Photovoltaic/Thermal System Integrated With Transpired Collector. *Solar Energy*, 85, 139–153.
8. Pratish M, Keith R, Leong IX, Alongkarn C, Kherani NP, and Zukotynski S. (2011). Diamond-like carbon based low-emissive coatings”, *Journal Solar Energy Materials and Solar Cells* (Doi: 10.1016/j.solmat.2011.01.015)
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10. Cruickshank, C.A. and Harrison, S.J. (2011). Thermal Response of a Series-Connected Energy Storage to Multi-day Charge Sequences”, *Solar Energy* 85 (1), 180–187.
11. O'Brien, W., Athienitis, A. Kesik, T. (2011). Thermal zoning and interzonal airflow in the design and simulation of solar houses: a sensitivity analysis. *Journal of Building Performance Simulation*. 4(3): 239-256.
12. Candanedo, L., Athienitis, A.K., Candanedo, J., O'Brien, W. and Chen, Y.X. (2010). Transient and Steady State Models for Open-Loop Air-Based BIPV/T Systems, *ASHRAE Trans.*, Vol. 116, Pt. 1., 600-613.
13. Adachi, C. & Rowlands, I. H. (2010). The role of policies in supporting the diffusion of solar photovoltaic systems: Experiences with Ontario, Canada's renewable energy standard offer program. *Sustainability*, 2 (1), 30-47.
14. Bessoudo, M., Tzempelikos, A., Athienitis, A. K. & Zmeureanu, R. (2010). Indoor thermal environmental conditions near glazed facades with shading devices - Part I: Experiments and building thermal model. *Building and Environment*, 45 (11), 2506-2516.
15. Candanedo, J. A. & Athienitis, A. K. (2010). Investigation of anticipatory control strategies in a net-zero energy solar house. *ASHRAE Transactions*, 116 (1), 246-259.

16. Candanedo, L. M., Athienitis, A. K., Candanedo, J., O'Brien, W. & Chen, Y. (2010). Transient and steady state models for open-loop air based BIPV/T systems. *ASHRAE Transactions*, 116 (1), 600-612.
17. Chen, Y., Athienitis, A. K. & Galal, K. (2010). Modeling, design and thermal performance of a BIPV/T system thermally coupled with a ventilated concrete slab in a low energy solar house: Part 1, BIPV/T system and house energy concept. *Solar Energy*, 84(11), 1892-1907.
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33. Tzempelikos, A., Bessoudo, M., Athienitis, A. K. & Zmeureanu, R. (2010). Indoor thermal environmental conditions near glazed facades with shading devices - Part II: Thermal comfort simulation and impact of glazing and shading properties. *Building and Environment*, 45 (11), 2517-2525.
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