

Solar Energy and Fuel Cell Research Laboratory at Carleton University

Publication Archives

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2011

Edwards, C., Beausoleil-Morrison, I., Cruickshank, C.A., Johnson, G., “Assessing the Feasibility of Solar Absorption Cooling for Canadian Housing”, Proceedings of ISES Solar World Congress 2011. Kassel, Germany. August 2011.

Sabet-Sharghi, N., Cruickshank, C.A., Matida, E., “Experimental Analysis of a Single Cell Flowing Electrolyte-Direct Methanol Fuel Cell”, Proceedings of the 9th Fuel Cell Science, Engineering and Technology Conference (ESFuelCell – 2011) (pp.663-668), Annual Meeting of the American Society of Mechanical Engineers (ASME). Washington, DC. August 2011. (Cited by 1 article (ref: Google Scholar))

Kablou, Y., Cruickshank, C.A., Ouellette, D., Matida, E., “Semi-Empirical Flow and Pressure Distribution Modeling of a Flowing Electrolyte Direct Methanol Fuel Cell Stack”, Proceedings of the 9th Fuel Cell Science, Engineering and Technology Conference (ESFuelCell – 2011) (pp.667-683), Annual Meeting of the American Society of Mechanical Engineers (ASME). Washington, DC. August 2011.

Dickinson, R. M., Cruickshank, C.A., “Review of Combined Space and Domestic Hot Water Heating Systems for Solar Applications”, Proceedings of the 5th International Conference on Energy Sustainability (ESFuelCell – 2011) (pp.205-211), Annual Meeting of the American Society of Mechanical Engineers (ASME). Washington, DC. August 2011. (Cited by 1 article (ref: Google Scholar))

Ouellette, D., Ozgur, C.O., Matida, E., Cruickshank, C.A., “Modeling of Carbon Dioxide Formation in Flowing Electrolyte-Direct Methanol Fuel Cells”, Proceedings of the 9th Fuel Cell Science, Engineering and Technology Conference (ESFuelCell – 2011) (pp.685-693), Annual Meeting of the American Society of Mechanical Engineers (ASME). Washington, DC. August 2011. (Cited by 2 articles (ref: Google Scholar))

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Dickinson, R.M., Cruickshank, C.A., Harrison, S.J., "Charge and Discharge Strategies for a Multi-tank Thermal Energy Storage", Proceedings of Innostock 2012 Conference. Lleida, Spain. May 2012.

Ouellette, D., Colpan, C.O., Matida, E., Cruickshank, C.A., Fung, A., Hamdullahpur, F., "Multiphysics Modeling and Testing of a Flowing Electrolyte-Direct Methanol Fuel Cell", 11th International Conference on Hydrogen Production 2012. Korea. June 2012.

Wills, A., Pinel, P., Beausoleil-Morrison, I., Cruickshank, C.A., "Seasonal Thermal Energy Storage Systems of the C-RISE Experimental Facility", RIED 2012 Intercollegiate Sustainable Energy Network Scientific Seminar, Montreal, Canada. June 2012.

Dickinson, R. M., Cruickshank, C. A. and Harrison, S. J. "The Effects of Discharge Configurations on the Thermal Behaviour of a Multi-Tank Storage System," In Energy Procedia, Proceedings of the 1st International Conference on Solar Heating and Cooling for Buildings and Industry (SHC 2012), Volume 30, Pages 215-224, San Francisco, USA, July 2012. (Cited by 4 articles (ref: Google Scholar))

Kablou, Y., Cruickshank, C.A., Matida, E., Hamdullahpur, F., "Experimental Analysis of a Small-scale Flowing Electrolyte-Direct Methanol Fuel Cell Stack", Proceedings of the 11th International Conference on Sustainable Energy Technologies 2012. Vancouver, British Columbia. Sept. 2012.

Baldwin, C., Cruickshank, C.A., "A Review of Solar Cooling Technologies for Residential Applications in Canada", In Energy Procedia, Proceedings of the 1st International Conference on Solar Heating and Cooling for Buildings and Industry (SHC 2012), Volume 30, Pages 495-504, San Francisco, USA, July 2012. (Cited by 9 articles (ref: Google Scholar))

Wills, A., Cruickshank, C.A., Beausoleil-Morrison, I., "Application of the ESP-r / TRNSYS Co-simulator to Study Solar Heating with a Single-house Scale Seasonal Storage", In Energy Procedia, Proceedings of the 1st International Conference on Solar Heating and Cooling for Buildings and Industry (SHC 2012), Volume 30, Pages 715–722, San Francisco, USA, July 2012. (Cited by 6 articles (ref: Google Scholar))

Ouellette, D., Colpan, C.O., Matida, E., Cruickshank C.A. "Multiphase Mixture Modelling and Experimentation of a Flowing Electrolyte-Direct Methanol Fuel Cell", Proceedings of the 11th International Conference on Sustainable Energy Technologies 2012. Vancouver, British Columbia. Sept. 2012.

Duivesteyn, E., Cruickshank, C.A., Matida, E., "Modelling of a Porous Flowing Electrolyte Layer in a Flowing Electrolyte Direct Methanol Fuel Cell", Proceedings of the 11th International Conference on Sustainable Energy Technologies 2012. Vancouver, British Columbia. Sept. 2012.

Chan, D., Ouellette, D., Cruickshank, C.A., Matida, E., McRae, G., "Electrochemical Impedance Spectroscopy Study on a Flowing Electrolyte-Direct Methanol Fuel Cell", Proceedings of the 11th International Conference on Sustainable Energy Technologies 2012. Vancouver, British Columbia. Sept. 2012.

Brown, M., Cruickshank, C.A. "Simulated and Measured Performance Comparison of a Building-Integrated Photovoltaic Array in Iqaluit, Nunavut", Proceedings of the 11th International Conference on Sustainable Energy Technologies 2012. Vancouver, British Columbia. Sept. 2012.

2013

Huchuk, B., O'Brien, L., Cruickshank, C.A. "Preliminary Results of Model Predictive Control of Shading Systems", Proceedings of the Symposium on Simulation for Architecture and Urban Design (SimAUD), Society for Computer Simulation International, San Diego, USA. April 2013. (Cited by 1 article (ref: Google Scholar))

Brown, M., Schiedel, M., Chu, J., Burgoyne, Z., Cruickshank C.A., Morgan, J., "Design and Construction of ECHO, Team Ontario's 2013 Solar Decathlon Entry", RIED 2013 Intercollegiate Sustainable Energy Network Scientific Seminar, Gatineau, Quebec, Canada. June 2013.

Ouellette, D., Cruickshank, C.A., Matida, E., "Experimental Analysis of Liquid Water Transport within a Flowing Electrolyte – Direct Methanol Fuel Cell", Proceedings of the Hydrogen & Fuel Cells 2013. Vancouver, British Columbia, June 2013.

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Ouellette, D., Cruickshank, C.A., Matida, E., "Experimental Studies of a Formic Acid Electrolyte – Direct Methanol Fuel Cell", Proceedings of the ASME 2013 11th Fuel Cell Science, Engineering and Technology Conference (ESFuelCell-2013), Annual Meeting of the American Society of Mechanical Engineers. Minneapolis, MN. July 2013. doi: 10.1115/FuelCell2013-18171

Duivesteyn, E., Cruickshank, C. A., Matida, E., "Non-Isothermal Hydrodynamic Modelling of the Flowing Electrolyte Channel in a Flowing Electrolyte-Direct Methanol Fuel Cell", Proceedings of the ASME 2013 11th Fuel Cell Science, Engineering and Technology Conference (ESFuelCell-2013), Annual Meeting of the American Society of Mechanical Engineers, Minneapolis, MN, July 2013.

Chu, J., Choi, W., Cruickshank, C. A. and Harrison, S. J. "Modelling of an Indirect Solar-Assisted Heat Pump System for a High Performance Residential House", Proceedings of ASME 2013 7th International Conference on Energy Sustainability (ESFuelCell-2013), Annual Meeting of the American Society of Mechanical Engineers, Minneapolis, MN, July 2013. doi: 10.1115/ES2013-18222 (Cited by 1 article (ref: Google Scholar))

Chu, J., Cruickshank, C. A. "Solar-Assisted Heat Pump Systems: A Review of Existing Studies and Their Applicability to the Canadian Residential Sector", Proceedings of ASME 2013 7th International Conference on Energy Sustainability (ESFuelCell-2013), Annual Meeting of the American Society of Mechanical Engineers, Minneapolis, MN, July 2013.

Cruickshank, C. A., Schiedel, M., St-Jacques, M., Thwaites, S. "Vacuum Insulated Doors" Proceedings of the Eighth Annual North American Passive House Conference, Pittsburgh, Pennsylvania, Oct. 2013.

2014

Huchuk, B., Cruickshank, C.A, O'Brien, L., Gunay, B. "Recursive Thermal Building Model Training Using Ensemble Kalman Filters", Proceedings of eSim 2014, Ottawa, Ontario. May 2014. (Cited by 1 articles (ref: Google Scholar))

Brown, M., Chu, J., Cruickshank, C.A. "The Role of Building Performance Simulation in the Design of ECHO, Team Ontario's Entry into the U.S. Department of Energy Solar Decathlon 2013", Proceedings of eSim 2014, Ottawa, Ontario. May 2014.