

## 2014 Publications of UNLV's Center for Energy Research

- A. Cross, K. Hammer, R. Hurt, **R. Boehm**, "An autonomous controller for ductless mini-split heat pumps, residential solar thermal collection, and hydronic floor heating," in *SME 2014 8th International Conference on Energy Sustainability collocated with the ASME 2014 12th International Conference on Fuel Cell Science, Engineering and Technology*, (2014). doi: 10.1115/ES2014-6316
- S. Henson, C. Lopez-Tello, M. Zeeshan, P. Ginobbi, **Y. Baghzouz**, "An Automatic Efficiency Optimizer for Fractional-Horsepower Appliance Motors," *IEEE/ISIE*, Istanbul, Turkey, (2014). doi: 10.1109/ISIE.2014.6864706
- T. Ma, X. Xu, Q. Wang, L. Li, **Y. Chen**, "Study on thermal resistance distribution and local heat transfer enhancement method for SCO<sub>2</sub>-water heat exchange process near pseudo-critical temperature," *International Journal of Heat and Mass Transfer*, **82**,179-188 (2014). doi: <https://doi.org/10.1016/j.ijheatmasstransfer.2014.11.029>
- Y. Moumouni, **Y. Baghzouz**, **R.F. Boehm**, "Power Smoothing of a Commercial Size Photovoltaic System," *IEEE/ICHQP*, Bucharest, Romania, (2014). doi: 10.1109/ICHQP.2014.6842838
- V. Nagarajan, **Y. Chen**, T.-C. Hung, Q. Wang, and V. Ponyavin, "Numerical modeling of bayonet type heat exchanger and decomposer for the decomposition of sulfuric acid to sulfur dioxide," *Heat Transfer Engineering*, **35**(6-8), 589-599 (2014). doi: <https://doi.org/10.1080/01457632.2013.837644>
- V. Nagarajan, **Y. Chen**, Q. Wang, and T. Ma, "Hydraulic and thermal performances of a novel configuration of high temperature ceramic plate-fin heat exchanger," *Applied Energy*, **113**, 589-602 (2014). doi: <https://doi.org/10.1016/j.apenergy.2013.07.037>
- T. Qu, T. Ma, M. Zeng, **Y. Chen**, and Q. Wang, "Multiscale simulations of fluid flow for finned elliptic tube heat exchangers using porous media approach," in *ASME 2014 International Mechanical Engineering Congress and Exposition* (2014). doi:10.1115/IMECE2014-37655
- X. Xu, T. Ma, L. Li, M. Zeng, **Y. Chen**, Y. Huang, Q. Wang, "Optimization of fin arrangement and channel configuration in an airfoil fin PCHE for supercritical CO<sub>2</sub> cycle," *Applied Thermal Engineering*, **70**(1), 867-875 (2014). doi: <https://doi.org/10.1016/j.applthermaleng.2014.05.040>
- D. Xueping, Y. Yantao, M. Zeng, Y. Pengqing, Q. Wang, Z. Dong, **Y. Chen**, "An experimental investigation on air-side performances of finned tube heat exchangers for indirect air-cooling tower," *Thermal Science*, **18**(3), 863-874 (2014). doi: <https://doi.org/10.2298/TSCI1403863D>
- Z. Zeng, R. Hurt, **R. Boehm**, "The 2013 University of Nevada Las Vegas Solar Decathlon house: strategy, design, simulation and results." in *ASME 2014 8th International Conference on Energy Sustainability collocated with the ASME 2014 12th International Conference on Fuel Cell Science, Engineering and Technology*, (2014). doi: 10.1115/ES2014-6458