

## 2012 Publications of UNLV's Center for Energy Research

- Ting Ma, Qiuwang Wang, Min Zeng, Yitung Chen, Yang Liu, and Vijaisri Nagarajan, 2012. Study on heat transfer and pressure drop performances of ribbed channel in the high temperature heat exchanger, *Applied Energy*, Vol. 99, pp. 393-401.
- Ting Ma, Yitung Chen, Min Zeng, and Qiuwang Wang, 2012. Stress analysis of internally finned bayonet tube in a high temperature heat exchanger, *Applied Thermal Engineering*, Vol. 43, pp. 101-108.
- Valery Ponyavin, Yitung Chen, Taha Mohamed, Mohamed Trabia, Anthony E. Hechanova, and Merrill Wilson, 2012. Design of a compact ceramic high temperature heat exchanger and chemical decomposer for hydrogen production, *Heat Transfer Engineering*, Vol. 33, Issue 10, pp. 1-20.
- Yang Liu, Yitung Chen, Jichun Li, Tsu-chen Hung, and Jianping Li, 2012. Study of energy absorption on solar cell using metamaterials, *Solar Energy*, Vol. 86, Issue 5, pp. 1586-1599.
- Kuan-Che Lan, Yitung Chen, Ge-Ping Yu, and Tzu-Chen Hung, 2012. Cellular automaton for simulation of oxide layer growth influenced by chromium concentration of structure materials, The 9<sup>th</sup> International Conference for Mesoscopic Methods in Engineering and Science, July 23-27, Taipei, Taiwan (Paper Number: 173)
- Kuan-Che Lan, Yitung Chen, Ge-Ping Yu, and Tzu-Chen Hung, 2012. Reliability of thickness of oxide layer of stainless steels with chromium using cellular automaton model, The 2012 International Congress on the Advances in Nuclear Power Plants (ICAPP2012), Chicago, U.S.A., June 24-28, (Paper Number: 12272).
- Karn Soontrapa and Yitung Chen, 2012. Thermal management for lunar space module, The 2<sup>nd</sup> Asian-US-European Thermophysics Conference-Thermal Science for Sustainable World, January 3-6, Hong Kong, China.
- S. Sadineni, R. Boehm, 2012. Measurements and simulations for peak electrical load reduction in cooling dominated climate. *Energy – The International Journal*, Vol. 37, pp. 689-697.
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- R. Boehm, 2012. Keynote Address, Advances in Solar Power Generation, 2<sup>nd</sup> Asian-US-European Thermophysics Conference, Hong Kong, January.
- R. Boehm, 2012. Minimizing peak electrical demand in hot climates. Paper 34X-H5C2F6F6C6, 2<sup>nd</sup> Asian-US-European Thermophysics Conference, Hong Kong, January.
- R. Boehm, 2012. Development of an in-situ façade-evaluation facility. Paper 35X-C8C3B7H3D6, 2<sup>nd</sup> Asian-US-European Thermophysics Conference, Hong Kong, January.
- R. Boehm, 2012. Assessment of solar development in Taiwan. ASME Paper ES2012-91020 in Proceedings of the 6<sup>th</sup> International Conference on Energy Sustainability.
- O. Ayubi, A. Sahm, R. Boehm, 2012. Performance and operation of the Southern Nevada Water Authority high concentration photovoltaic plant for the last 800 days. ASME Paper ES2012-91050 in Proceedings of the 6<sup>th</sup> International Conference on Energy Sustainability.

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- S. Kusek, M. Caraway, T. McFarland, M. Lynn, A. Sahm, R. Boehm, O. Ayubi, 2012. Initial testing of the Hitek solar tracking monitor. ASME Paper ES2012-91204 in Proceedings of the 6<sup>th</sup> International Conference on Energy Sustainability.
- S. Sadineni, S. Madala, R. Boehm, 2012. A cost effective solar tracker and performance monitoring system for utility scale photovoltaic installations. ASME Paper ES2012-91533 in Proceedings of the 6<sup>th</sup> International Conference on Energy Sustainability.
- R. Boehm, 2012. Two energy conserving house projects in the Mohave Desert. APEC Low Carbon Model Town Forum, Tianjin University, November.
- Arabali, M. Ghofrani, M. Etezadi-Amoli, and Y. Baghzouz, 2012. Operating reserve requirements in a power system with dispersed wind generation, IEEE/PES Innovative Smart Grid Technologies, Jan. 16-20.
- J. Johnson, D. Yoon and Y. Baghzouz, 2012. Modeling and analysis of a bifacial grid-connected PV system, IEEE/PES General Meeting, July 22-27.