

2016 Publications of UNLV's Center for Energy Research

- H. An, D.E. Karas, **J. Moon**, (Poster), "Annealing effect on thermoelectric power factor of n-type thermoelectric composite film", *MRS Fall 2016*, Boston, MA (2016).
- **R. Boehm**, "The nexus between solar energy, water, and the environment", Keynote speech, *Proceedings of the 2016 Energy & Water Symposium*, Windsor, Ontario, Canada (2016).
- G. Fan, P. Tong, Z. Sun, and **Y. Chen**, "Preliminary study of correlation for steam condensation rates in the presence of air," *9th International Symposium on Heat Transfer*, Beijing, China (Paper ID: R0256) (2016).
- M. Hodges, A. Barzilov, **Y. Chen**, and D. Lowe, "Characterization of the radiation environment at the UNLV accelerator facility during operation of the Varian M6 linac," *Radiation Physics and Chemistry*, **127**, 72-77 (2016). doi: <https://doi.org/10.1016/j.radphyschem.2016.06.010>
- M. Hodges, A. Barzilov, **Y. Chen**, D. Lowe, "Varian K15 linac radiation environment at the UNLV accelerator facility," *13th International Conference on Radiation Shielding*, Paris, France (2016).
- M. Hodges, A. Barzilov, **Yitong Chen**, D. Lowe, "Characterization of a 6 MeV accelerator driven mixed neutron/photon source," *24th Conference of Application of Accelerators in Research and Industry*, Fort Worth, Texas (2016).
- M. Hodges, A. Barzilov, and **Y. Chen**, "Computational study of 15 MeV Linac radiation doses at the UNLV accelerator facility," *2016 ANS Winter Meeting and Nuclear Technology Expo*, Las Vegas, Nevada (2016).
- C. Jose, D.E. Karas, **J. Moon**, (Poster), "Spectrally-selective copper-oxide spinel absorber coatings for high-temperature concentrated solar power systems.", *ACS Annual Undergraduate/Graduate Student Poster Competition Exposition*, Nevada State College (NSC), Las Vegas, Nevada (2016).
- D.E. Karas, H. An, **J. Moon**, (Poster), "Annealing effect on thermoelectric power factor of n-type thermoelectric composite film, Part I: Fabrication of n-type materials with Bi₂Te₃ nanowires", *ACS Annual Undergraduate/Graduate Student Poster Competition Exposition*, Nevada State College (NSC), Las Vegas, Nevada (2016).
- K. Kekaula and **Y. Chen**, "Numerical investigation of condensation in inclined tube air-cooled condensers," *9th International Symposium on Heat Transfer*, Beijing, China (Paper ID: E0307) (2016).
- X. Lu, M. Zeng, T. Ma, **Y. Chen**, Q. Wang, "Simulation of metal corrosion layer growth behavior under high temperature by cellular automaton method," *Kung Cheng Je Wu Li Hsueh Pao / Journal of Engineering Thermophysics*, **37**(9), 2019-2022 (2016).
- T. Ma, W.-X. Chu, X.-Y. Xu, **Y. Chen**, Q.-W. Wang, "An experimental study on heat transfer between supercritical carbon dioxide and water near the pseudo-critical temperature in a double pipe heat exchanger," *International Journal of Heat and Mass Transfer*, **93**, 379-387 (2016). doi: <https://doi.org/10.1016/j.ijheatmasstransfer.2015.10.017>
- S. Madala and **R. Boehm**, "Effect of reflection losses on stationary dielectric-filled nonimaging concentrators," *Journal of Photonics for Energy*, **6**(4), 047002:1-14 (2016). doi: [10.1117/1.JPE.6.047002](https://doi.org/10.1117/1.JPE.6.047002)

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- U. Pasquier, W.-X. Chu, M. Zeng, **Y. Chen**, Q. Wang, T. Ma, "CFD simulation and optimization of fluid flow distribution inside printed circuit heat exchanger headers," *Numerical Heat Transfer Part A-Application*, **69**(7), 710-726 (2016).
- W. Pu, C. Yue, D. Han, W. He, X. Liu, Q. Zhang, **Y. Chen**, "Experimental study on organic Rankine cycle for low grade thermal energy recovery," *Applied Thermal Engineering*, **94**, 221-227 (2016). doi: <https://doi.org/10.1016/j.applthermaleng.2015.09.120>
- A. Sahm, L. Burnham, **R. Boehm**, A. Betemedhin, G. Wood, "The long-term viability of concentrated photovoltaic systems in the southwestern US," *Paper IMECE2016-66931, ASME 2016 International Mechanical Engineering Congress and Exposition*, November 11-17 (2016). doi: 10.1115/IMECE2016-66931
- L. Sang, Y. Zhang, J. Wang, Y. Zhao, **Y. Chen**, "Correlation of the depletion layer with the Helmholtz layer in the anatase TiO₂-H₂O interface: via molecular dynamics simulations," *Physical Chemistry Chemical Physics*, **18**, pp. 15427-15435 (2016). doi: 10.1039/C6CP01990K
- M. Zhang, X. Tu, J. Wang, T. Fang, Y. Wang, X. Xu, M. Zhang, **Y. Chen**, "Hydrothermal syntheses of CuO, CuO/Cu₂O, Cu₂O, Cu₂O/Cu and Cu microcrystals using ionic liquids," *Chemical Research in Chinese Universities*, **32**(4), 530-533 (2016).
- J. Zheng, M.C. Wingert, **J. Moon**, and R. Chen, "Simultaneous specific heat and thermal conductivity measurement of individual nanostructures," *Semiconductor Science and Technology* 31 (8):84005-84010 (2016).