2017 Publications of UNLV's Center for Energy Research

Bian Q., Wang J., **Chen Y.**, Wang Q., Zeng, M., "Numerical investigation of mist/air impingement cooling on rough-ribbed blade leading-edge surface," *Journal of Environmental Management*, **203**, 1062-1071 (2017). doi: https://doi.org/10.1016/j.jenvman.2017.05.052

Chen K., Wang L., **Chen Y.**, Wang Q., "Molecular dynamics simulations of interfaces and microstructure evolution during high-speed sliding," *Numerical Heat Transfer; Part A: Applications*, **72**(7), 519-535 (2017). doi: https://doi.org/10.1080/10407782.2017.1386513

Chen K., Wang L., **Chen Y.**, Wang Q., "Molecular dynamics simulations of microstructure evolution and heat dissipation of nanoscale friction," *International Journal of Heat and Mass Transfer*, **109**, 293-301 (2017). doi: https://doi.org/10.1016/j.ijheatmasstransfer.2017.01.105

Chu W., Li X., Ma T., **Chen Y.**, Wang, Q., "Experimental investigation on SCO2-water heat transfer characteristics in a printed circuit heat exchanger with straight channels," *International Journal of Heat and Mass Transfer*, **113**, 184-194 (2017). doi: https://doi.org/10.1016/j.ijheatmasstransfer.2017.05.059

Chu W., Li X., Ma T., **Chen Y.**, Wang Q., "Study on hydraulic and thermal performance of printed circuit heat transfer surface with distributed airfoil fins," *Applied Thermal Engineering*, **114**, 1309-1318 (2017). doi: https://doi.org/10.1016/j.applthermaleng.2016.11.187

Hodges M., Barzilov A., **Chen Y.**, "Computational Analysis of Neutron Signatures for Photofission Assay of SNM Using a Varian K15 Linac," 13th International Topical Meeting on Nuclear Applications of Accelerators, July 31-August 4, 2017, Quebec City, Quebec, Canada.

Hodges, M., Barzilov A., **Chen, Y.**, Lowe, D., "Characterization of a 6 MeV accelerator driven mixed neutron/photon source," *Physics Procedia*, **90**, 164-169 (2017). doi: https://doi.org/10.1016/j.phpro.2017.09.054

Hsieh H.-E., Chen M.-S., **Chen Y.**, Chen J.-W., Lin W.-K., Pei B.-S., "A CHF Correlation and Flow Pattern Observation on a Downward-Facing Boiling Surface," Proceedings of The 20th Pacific Basin Nuclear Conference, 13-20, Part I, Volume I (2017).

Kekaula K., **Chen Y.**, "Analysis of Film Condensation Air-cooled Heat Exchangers with Non-Circular Plain Tubes," 2nd Thermal and Fluids Engineering Conference and 4th International Workshop on Heat Transfer, April 2-5, 2017, Las Vegas, USA (Paper ID: 18650)

Kekaula K., **Chen Y.**, Ma T., and Wang Q., "Numerical investigation of condensation in inclined tube aircooled condensers," *Applied Thermal Engineering*, **118**, 418-429 (2017). doi: https://doi.org/10.1016/j.applthermaleng.2017.03.001

Kermani E.P., **Chen Y.**, "Simulation of oxygen transfer in liquid lead under influence of nanoparticles by using lattice Boltzmann method," *Theoretical and Applied Mechanics Letters*, **7**, pp. 22-29 (2017). doi: https://doi.org/10.1016/j.taml.2016.11.002

Ma T., Pasquier U., **Chen Y.**, Wang Q., "Numerical study on thermal-hydraulic performance of a two-sided etched zigzag-type high-temperature printed circuit heat exchanger," 9th International Conference on Applied Energy, August 21-24, 2017, Cardiff, United Kingdom (Paper ID: 358)

Ma T., Wang Q., **Chen Y.**, "A Review of Printed Circuit Heat Exchanger," 2nd Thermal and Fluids Engineering Conference and 4th International Workshop on Heat Transfer, April 2-5, 2017, Las Vegas, USA (Paper ID: 17969)

Madala, S. **Boehm, R.F.**, "A review of nonimaging solar concentrators for stationary and passive tracking applications," *Renewable and Sustainable Energy Reviews*, **71**, 309-322. doi: https://doi.org/10.1016/j.rser.2016.12.058

Xin F., Ma T., **Chen Y.**, and Wang Q., "Two-dimensional chemical etching process simulation for printed circuit heat exchanger channels based on cellular automata model," *Heat Transfer Engineering*, **39**, 1-13 (2017). doi: https://doi.org/10.1080/01457632.2017.1325660