* X. J. Wang and B. L. Huang, “Computational study of in-plane phonon transport in Si thin films”, Scientific Reports, 4, 6399, 2014
* D.H. Li, J. Zhang, X.J. Wang, B.L. Huang, Q.H. Xiong, “Solid-state semiconductor cryocooler based on CdS nanobelts”, Nano Letters, 2014
* Y.J. Zhu, J.S. Wu, B.L. Huang, “Optimization of filler distribution for organic phase change material composites: Numerical investigation and entropy analysis”, Applied Energy, 2014
* C. Li , B.L. Huang, L. Cao, Z.G. Li, “Molecular diffusion on surfaces in the weak friction limit”, Journal of Applied Physics, 2014
* R.Q. Guo, B.L. Huang, “Thermal Transport in Nanoporous Silicon: Anisotropy and Junction Effects”, International Journal of Heat and Mass Transfer, 77, 131, 2014
* X.Y. Zhou, H. Ren, B.L. Huang, T. Y. Zhang, “Size-dependent elastic properties of thin films: surface anisotropy and surface bonding”, Science China Technological Sciences, 2014
* S. Yang, C.H. Zhou, Q.M. Jiang, J.B. Lu, B.L. Huang, J. Kevin Chen,“Investigation of buffer traps in AlGaN/GaN-on-Si devices by thermally stimulated current spectroscopy and back-gating measurement”, Applied Physics Letters, 1, 013504, 2013
* J. L. Ma, B.L. Huang and X.B. Luo, “Effects of point defects and dislocations on spectral phonon transport properties of wurtzite GaN”, Journal of Applied Physics, 104, 074311, 2013
* X.C. Ren, Paddy K.L. Chan, J.B. Lu, B.L. Huang and Dennis C. W, Leung, “High dynamic range organic temperature sensor”, Advanced Materials, 2012.
* A. J. Gross, G. S. Hwang, B.L. Huang, H. Yang, N. Ghafouri, H. Kim, R. L. Peterson, C. Uher, M. Kaviany, and K. Najafi, “Multistage planar thermoelectric microcoolers”, *Journal of Microelectromechanical Systems* 20, 1201, 2011.
* H. Kim, M. Kaviany,J. C. Thomas,A. Van der Ven, C. Uher and B.L. Huang, "Structural order-disorder transitions and phonon conductivity of partially filled skutterudites ", Physical Review Letters 105, 265901, 2010.
* K. Hippalgaonkar, B.L. Huang , R.K. Chen, K. Sawyer, P. Ercius and A.Majumdar, “ Fabrication of microdevices with integrated nanowires for investigating low-dimensional phonon transport", Nano Letters 10, 4341, 2010.
* B.L. Huang and M. Kaviany, “Filler-reduced phonon conductivity ofthermoelectric skutterudites: First-principle calculations and molecular dynamicssimulations”, ACTA Materialia 58, 4516, 2010.
* A. Gross, B.L. Huang, G. S. Hwang, H. Yang, N. Ghafouri, H. Kim, C. Uher, M. Kaviany and K. Najafi, “High-performance micro scale thermoelectric cooler: An optimized 6-stage cooler”, Proc. 15th International Conference on Solid-StateSensors, Actuators and Microsystems (Transducers’09), Denver,Colorado, June 2009.
* B.L. Huang and M. Kaviany, “Ab initio and molecular dynamicspredictions for electron and phonon transport in bismuth telluride”, PhysicalReview B 77, 125209, 2008.
* B.L. Huang, C. Lawrence, A. Gross,G.-S. Hwang, N. Ghafouri, S.-W. Lee, H. Kim, C.-P. Li, C. Uher, K. Najafi andM. Kaviany, “Low-temperature characterization and micro patterning of co-evaporatedBi2Te3/Sb2Te3 films”, Journal of Applied Physics 104, 113710-1-8, 2008.
* A. Gross, B.L. Huang, G. S. Hwang, C. Lawrence, N.Ghafouri, S. W. Lee, H. Kim, C. Uher, M. Kaviany and K. Najafi, “A multistagein-plane micro-thermoelectric cooler”, MEMS 2008, IEEE 21st International Conference on Micro ElectroMechanical Systems, 840, 2008.
* B.L. Huang, A.J.H. McGaughey and M.Kaviany, "Thermal conductivity of metal-organic framework 5 (MOF-5): Part1. Molecular dynamics simulations", International Journal of Heat and MassTransfer 50, 393-404, 2007.
* B.L. Huang, Z. Ni, A. Millward,A.J.H McGaughey, C. Uher, M. Kaviany and O. Yaghi, "Thermal conductivityof a metal-organic framework (MOF-5): Part 2. Measurement", InternationalJournal of Heat and Mass Transfer 50, 405, 2007.
* B.L.Huang and M. Kaviany,"Structural metrics of high-temperature lattice conductivity", Journalof Applied Physics 100, 123507-1-12, 2006.