

Dr. Jing Wang is currently an Associate Professor in the Department of Electrical Engineering and the Co-Director of the Center for Wireless and Microwave Information Systems (WAMI) at University of South Florida. He received dual B.S. degrees from Tsinghua University in 1999. He got two M.S. degrees, one in electrical engineering (2000), the other in mechanical engineering (2002), and a Ph.D. degree (2006) all from University of Michigan, Ann Arbor. He has joined IEEE MTT-21 Technical Committee in RF MEMS and Micromachining (<http://ewh.ieee.org/cmte/mtt/tc21/>).

### Research Interests

His research interests include micromachined transducers, RF/Bio-MEMS, lab-on-a-chip and microfluidics, advanced manufacturing, functional nanomaterials, and RF/microwave devices.

### Recent Publications

- [1] I.T. Nassar, J. Wang; J.L. Frolik, T. M. Weller, "A High-Efficiency, Miniaturized Sensor Node With 3-D Machined-Substrate Antennas for Embedded Wireless Monitoring," *IEEE Sensors Journal*, vol. 15, no. 9, pp. 5036-5044, Sept. 2015, doi: 10.1109/ JSEN.2015.2432807
- [2] I. Rivera, A. Avila, J. Wang, "Fourth-Order Contour Mode ZnO-on-SOI Disk Resonators for Mass Sensing Applications," *Actuators* 2015, 4(2), 60-76; doi:10.3390/act4020060.
- [3] V. Carias, J. Thompson, P. Kuma, L. Racz, R. Toomey and J. Wang, "Development of Injection-Moldable Composites with Ultra-Low Coefficient of Thermal Expansion and High Glass Transition Temperature for Fan-Out Wafer Level Packaging (FOWLP)," *IEEE Transactions on Components, Packaging and Manufacturing Technology*, 2015.
- [4] F. L. Sinatra, T. Wu, S. Manolakos, J. Wang and T. G. Evans-Nguyen, "Differential Mobility Spectrometry-Mass Spectrometry for Atomic Analysis," *Analytical Chemistry*, 87 (3), pp 1685-1693, 2015. (Publication Date: Dec. 18, 2014).
- [5] V. Carias, J. Wang and R. Toomey, "Poly(N-isopropylacrylamide) Cross-Linked Coatings with Phototunable Swelling," *Langmuir*, 30 (14), pp. 4105-4110, 2014.
- [6] M. Ladanov, P. Villalba, P. Algarin, Y. Emirov, G. Matthews, M. Ram, S. Thomas, A. Kumar and J. Wang, "Effects of the Physical Properties of Atomic Layer Deposition Grown Seeding Layers on the Preparation of ZnO Nanowires," *Journal of Physics and Chemistry of Solids*, November 2013.
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- [9] K. Stojak, S. Pal, H. Srikanth, C. Morales, J. Dewdney, T. Weller and J. Wang, "Polymer nanocomposites exhibiting magnetically tunable microwave properties," *Nanotechnology*, vol. 23, no. 13, 135602 (6pp), February 2011.
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- [11] O. Ortiz, A. Vidyasagar, J. Wang and R. Toomey "Surface Instabilities in Ultrathin, Cross-linked Poly(N-isopropylacrylamide) Coatings," *Langmuir*, 26 (22), pp.17489-17494, 2010.
- [12] I-T. Wu, N. Kislov, and J. Wang, "Fabrication of Thin-Film Nano-Scale Metal-Insulator-Metal (MIM) Tunnel Diode using Conventional Photolithography," *Nanoscience and Nanotechnology Letters*, vol. 2, no. 2, pp. 144-149, June 2010.
- [13] M. Wei, M. Xiong, I. Wu and J. Wang, "Fabrication and Material-Centric Design of Atomic Layer Deposition (ALD) Enabled Micromechanical Resonators," *Nanoscience and Nanotechnology Letters*, vol. 2, pp. 157-162, June 2010.

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