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Microwave Related Research and Applications

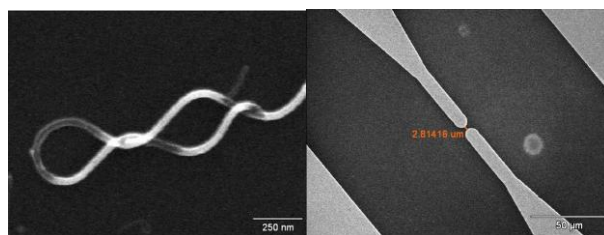
Prof. Hao Xin (University of Arizona)



Dr. Hao Xin, Professor of Electrical and Computer Engineering at the University of Arizona. He joined University of Arizona since August 2005 as an assistant professor. He was promoted to tenured associate professor in 2009 and to full professor in 2012. He received his Ph.D in Physics from Massachusetts Institute of Technology in February 2001. From 2000 to 2003, he was a research scientist with the Rockwell Scientific Company. He was a Sr. Principal Multidisciplinary Engineer with Raytheon Company from 2003 to 2005. His primary research interests are in the area of microwave / millimeter wave / THz devices, circuits, antennas and their applications in wireless communication and sensing systems. His recent research activities have covered a broad range of high frequency technologies, including applications of new technologies and materials in microwave and millimeter wave circuits such as electromagnetic band gap crystals and other meta-materials, carbon nano-tubes devices, solid state devices and circuits, active or semi-active antennas, and passive circuits. He has authored over 150 referred publications and 14 patents (12 issued and 2 pending) in the areas of microwave and millimeter-wave technologies, random power harvesting based on ferro-fluidic nano-particles and carbon nanotube based devices. He is a senior member of IEEE and chair of the joint chapter of IEEE AP/MTT/EMC/COMM in Tucson AZ. He is a general co-chair of the 8th International Workshop on Antenna Technology. hxin@ece.arizona.edu 520-626-6941.

Abstract

Since the development of fundamental concepts of over 100 years ago, microwave frequency related research and resulting applications have been and are continuing transforming human lives in terms of communication, remote sensing, and even cooking. A brief introduction and review of the history and accomplishment of this very active and ever-evolving research field will be given. Several examples of active current research areas will be discussed including metamaterials, THz technology, nano-materials and devices, and less well known microwave related research efforts for energy related applications.



All are welcome! Tea, coffee, biscuits will be served at 2:45 P.M.

You are welcome to nominate speakers to Shude Mao (shude.mao@gmail.com), Licai Deng (licai@bao.ac.cn), Xuelei Chen (xuelei@cosmology.bao.ac.cn).