

**Gokhan Mumcu** was born in Bursa, Turkey, on March 30, 1982. He received the B.S. degree in electrical engineering from Bilkent University, Ankara, Turkey, in 2003, and the M.S. and Ph.D. degrees in electrical and computer engineering from The Ohio State University, Columbus, in 2005 and 2008, respectively.

Dr. Mumcu is currently an Associate Professor at the Electrical Engineering Department, University of South Florida, Tampa, FL. He was a recipient of the 2014 CAREER award from the U.S. National Science Foundation. He was also recipient of 2014 faculty outstanding research award from the University of South Florida. He ranked first on the national university entrance exam taken annually by over 1.5 million Turkish students in 1999. He received the 1999 international education fellowship of the Turkish Ministry of Education. He was the recipient of a best paper award at 2008 URSI National Radio Science Meeting, and the 2008 outstanding dissertation award at The Ohio State University, ElectroScience Laboratory. He served as the co-chair of the technical program committee of the 2013 IEEE International Symposium on Antennas and Propagation and USNC/URSI National Radio Science Meeting.

### **Research Interests**

His research interests are small antennas, engineered materials, and THz technologies. His most recent research work is focused on reconfigurable RF devices, antennas and arrays using microfluidic reconfiguration techniques.

### **Recent Publications**

- A. Dey and G. Mumcu, "Microfluidically Controlled Frequency Tunable Monopole Antenna for High power RF Applications," to appear in IEEE Antennas and Wireless Propagation Letters (available in IEEExplore), 2015.
- A. A. Gheethan and G. Mumcu, "Passive Feed Network Designs for Microfluidic Beam-Scanning Focal Plane Arrays and Their Performance Evaluation," IEEE Transactions on Antennas and Propagation, vol. 63, no. 8, pp. 3452 – 3464, Aug. 2015.
- J. O'Brien, J. E. Granfield, G. Mumcu, and T. M. Weller, "Miniaturization of a Spiral Antenna Using Periodic Z-Plane Meandering," IEEE Transactions on Antennas and Propagation, vol. 63, no. 4, pp. 1843 – 1848, April 2015.
- S. Gupta and G. Mumcu, "Circularly Polarized Printed Antenna Miniaturized Using Complementary Split Ring Resonators and Reactive Pin Loadings," IET Microwaves, Antennas & Propagation, vol. 9, no. 2, pp. 118 – 128, Feb. 2015.
- A. Gheethan, M. C. Jo, R. Guldiken, and G. Mumcu, "Microfluidic Based Ka-Band Beam Scanning Focal Plane Array," IEEE Antennas and Wireless Propagation Letters, vol. 12, pp. 1638 – 1641, 2013.
- A. T. Almutawa and G. Mumcu, "Small Artificial Magnetic Conductor Backed Log-Periodic Microstrip Patch Antenna," IET Microwaves, Antennas & Propagation, vol. 7, no. 14, pp. 1137 – 1144, June 2013.
- T. Palomo, P. Herzig, T. M. Weller, and G. Mumcu, "Wideband Band-Stop X-Band Filter Using Electrically Small Tightly Coupled Resonators," IEEE Microwave and Wireless Components Letters, vol. 23, no. 7, pp. 356 – 358, July 2013.
- R. Liyakath, A. Takshi, and G. Mumcu, "Multilayer Stretchable Conductors on Polymer Substrates for Conformal and Reconfigurable Antennas," IEEE Antennas and Wireless Propagation Letters, vol. 12, pp. 603 – 606, 2013.

- A. Gheethan and G. Mumcu, "Compact 2x2 Coupled Double Loop GPS Antenna Array Loaded with Broadside Coupled Split Ring Resonators," *IEEE Transactions on Antennas and Propagation*, vol. 61, no. 6, pp. 3000 – 3008, June 2013.
- G. Mumcu, A. Dey, and T. Palomo, "Frequency-Agile Bandpass Filters Using Liquid Metal Tunable Broadside Coupled Split Ring Resonators," *IEEE Microwave and Wireless Components Letters*, vol. 23, no. 4, pp. 187 – 189, April 2013.
- S. Gupta and G. Mumcu, "Dual-Band Miniature Coupled Double Loop GPS Antenna Loaded with Lumped Capacitors and Inductive Pins," *IEEE Transactions on Antennas and Propagation*, vol. 61, no. 6, pp. 2904 – 2910, June 2013.