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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.
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- 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.