

## 2014 年发表的科研成果

### 期刊论文:

1. 王建武, 冯正和, “全相位相位差测量中的系统误差及其校正,” 系统工程与电子技术, vol.36, no.9, 2014 年。
2. 王建武, 冯正和, “窄带色散系统的群时延与包络时延的关系,” 电子与信息学报, vol. 36, no. 12, pp. 3042-3045, 2014 年 12 月。
3. Xiang Gao, Zhengwei Du, “A SPICE model of an antenna for transmitting,” International Journal of Microwave and Wireless Technologies, Vol.8, No.12, pp.931-936, Sept. 2014.
4. Xiang Gao, Zhengwei Du, “Modelling of a paraboloid antenna for receiving and its equivalent circuit,” IET Microwaves, Antennas & Propagation, Vol.8, No.12, pp.931-936, Sept. 2014.
5. Yan Wang, Zhengwei Du, “A wideband quad-antenna system for mobile terminals,” IEEE Antennas and Wireless Propagation Letters, Vol.13, pp. 1521 - 1524, July. 2014.
6. Lin Guo, Yan Wang, Zhengwei Du, Yougang Gao, Dan Shi, “A quad-antenna system operating at the 2.4/5.2/5.8GHz WLAN bands for laptop computers,” Progress In Electromagnetics Research C, Vol. 51, 149-159, 2014.
7. 米国浩, 杜正伟, 曹雷团, 吴强, 陈曦, “脉冲宽度对核电磁脉冲烧毁 RS 触发器效应的影响,” 强激光与粒子束, Vol. 26, No.5, pp.053203-1-053203-6, 2014 年 5 月。
8. Jie Chen, and Zhengwei Du, “Theoretical models for microwave pulse induced thermal failure in CMOS integrated circuits,” Microwave and Optical Technology Letters, Vol. 56, No. 5, pp. 1144–1151, May. 2014.
9. Yan Wang, Zhengwei Du, “A wideband printed dual-antenna with three neutralization lines for mobile terminals,” IEEE Transactions on Antennas and Propagation, Vol.62, No.3, pp. 1495-1500, Dec. 2013.
10. Xiang Gao, Zhengwei Du, “A SPICE model of rectangular microstrip antennas for receiving,”

IEEE Transactions on Electromagnetic Compatibility, Vol.56, No.1, pp.83-92, July 2013.

11. Yan Wang, Zhengwei Du, "A printed dual-antenna system operating in the GSM1800/GSM1900/UMTS/LTE2300/LTE2500/2.4-GHz WLAN bands for mobile terminals," IEEE Antennas and Wireless Propagation Letters, Vol.13, pp.233-236, Jan. 2014.
12. Lin Guo, Yan Wang, Zhengwei Du, Yougang Gao, and Dan Shi, "A compact uniplanar printed dual-antenna operating at the 2.4/5.2/5.8 GHz WLAN bands for laptop computers," IEEE Antennas and Wireless Propagation Letters, Vol.13, pp.229-232, Jan. 2014.
13. Han Wang, Zhijun Zhang, Yue Li, Zhenghe Feng, "A Wideband Differential-Fed Slot Antenna Using Integrated Compact Balun With Matching Capability," IEEE Transactions on Antennas and Propagation, vol. 62, No. 10, pp5394-5399, July 2014.
14. Han Wang, Zhijun Zhang, Yue Li, Zhenghe Feng, "Improved Main-Beam Nulling Through Single Switchable Displaced Element for Small Scale Adaptive Array," IEEE Transactions on Antennas and Propagation, vol. 62, No. 5, pp2522-2530, Feb. 2014.
15. Xiaolei Jiang, Zhijun Zhang, Yue Li, Zhenghe Feng, "A Novel Null Scanning Antenna Using Even and Odd Modes of a Shorted Patch," IEEE Transactions on Antennas and Propagation, vol. 62, No. 4, pp1903-1909, Jan. 2014.
16. Yue Li, Zhijun Zhang, Zhenghe Feng, Magdy Iskander, "Design of Omnidirectional Dual-Polarized Antenna in Slender and Low-Profile Column," IEEE Transactions on Antennas and Propagation, vol. 62, No. 4, pp2323-2326, Jan. 2014.
17. Yue Li, Zhijun Zhang, Changjiang Deng, Zhenghe Feng, Magdy Iskander, "2-D Planar Scalable Dual-Polarized Series-Fed Slot Antenna Array Using Single Substrate," IEEE Transactions on Antennas and Propagation, vol. 62, No. 4, pp2280-2283, Jan. 2014.
18. Yue Li, Zhijun Zhang, Zhenghe Feng, Magdy Iskander, "Design of Penta-Band Omnidirectional Slot Antenna With Slender Columnar Structure," IEEE Transactions on Antennas and Propagation, vol. 62, No. 2, pp594-601, Nov. 2013.
19. Yang Zhao, Zhijun Zhang, Kunpeng Wei, Zhenghe Feng, "A Dual Circularly Polarized Waveguide Antenna With Bidirectional Radiations of the Same Sense," IEEE Transactions on

Antennas and Propagation, vol. 62, No. 1, pp480 - 484, Jan. 2014.

20. Changjiang Deng, Yue Li, Zhijun Zhang, Zhenghe Feng, "A Circularly Polarized Pattern Diversity Antenna for Hemispherical Coverage," IEEE Transactions on Antennas and Propagation, vol. 62, No.10, pp5365-5369, July 2014.
21. Changjiang Deng, Yue Li, Zhijun Zhang, Zhenghe Feng, "A Wideband Sequential-Phase Fed Circularly Polarized Patch Array," IEEE Transactions on Antennas and Propagation, vol. 62, No.7, pp3890-3893, May 2014.
22. Changjiang Deng, Yue Li, Zhijun Zhang, Zhenghe Feng, "A Wideband Isotropic Radiated Planar Antenna Using Sequential Rotated L-Shaped Monopoles," IEEE Transactions on Antennas and Propagation, vol. 62, No.3, pp1461-1464, Dec. 2013.
23. Guoping Pan, Yue Li, Zhijun Zhang, Zhenghe Feng, "A Compact Wideband Slot-Loop Hybrid Antenna With a Monopole Feed," IEEE Transactions on Antennas and Propagation, vol. 62, No.7, pp3864-3868, April 2014.
24. Han Wang, Longsheng Liu, Zhijun Zhang, Yue Li, Zhenghe Feng, "Ultra-Compact Three-Port MIMO Antenna With High Isolation and Directional Radiation Patterns," IEEE Antennas and Wireless Propagation Letters, vol. 13, pp. 1545 - 1548, July 2014.
25. Longsheng Liu, Yue Li, Zhijun Zhang, Zhenghe Feng, "Circularly Polarized Patch-Helix Hybrid Antenna With Small Ground," IEEE Antennas and Wireless Propagation Letters, vol. 13, pp. 361-364, Feb. 2014.
26. Xiaolei Jiang, Zhijun Zhang, Yue Li, Zhenghe Feng, "A Planar Wideband Dual-Polarized Array for Active Antenna System," IEEE Antennas and Wireless Propagation Letters, vol. 13, pp. 544-547, March 2014.
27. Yue Li, Changjiang Deng, Zhijun Zhang, Zhenghe Feng, "A Simplified Hemispherical 2-D Angular Space Null Steering Approach for Linearly Polarization," IEEE Antennas and Wireless Propagation Letters, vol. 13, pp. 1628-1631, August 2014.
28. Changjiang Deng, Yue Li, Zhijun Zhang, Zhenghe Feng, "A Wideband High-Isolated Dual-Polarized Patch Antenna Using Two Different Balun Feedings," IEEE Antennas and

Wireless Propagation Letters, vol. 13, pp. 1617-1619, Aug. 2014.

29. Han Wang, Longsheng Liu, Zhijun Zhang, Zhenghe Feng: "Wideband tri-port MIMO antenna with compact size and directional radiation pattern," *Electronics Letters*, Vol.50, Issue 18, pp. 1261-1262, August 2014.
30. Xiaolei Jiang, Zhijun Zhang, Yue Li, Zhenghe Feng, "Wideband unidirectional circularly polarised slot array with integrated feeding network," *Electronics Letters*, Vol.50, Issue 15, pp. 1037-1038, July 2014.
31. Longsheng Liu, Han Wang, Yue Li, Zhijun Zhang, Zhenghe Feng, "Metallic short backfire antenna with halved size and wideband characteristics," *Electronics Letters*, Vol.50, Issue 13, pp. 907-908, June 2014.
32. Longsheng Liu, Yue Li, Zhijun Zhang, Zhenghe Feng, "Compact helical antenna with small ground fed by spiral-shaped microstrip line," *Electronics Letters*, Vol.50, Issue 5, pp. 336-338, 2014.
33. Longsheng Liu, Yang Zhao, Yue Li, Zhijun Zhang, Zhenghe Feng, "A Wideband Circularly Polarized Metallic Cavity Antenna Fed with an L-Shaped Probe," *Microwave and Optical Technology Letters*, Vol.56, Issue 10, pp. 2398-2403, 2014.
34. Longsheng Liu, Wendong Liu, Yue Li, Zhijun Zhang, Zhenghe Feng, "A planar reconfigurable antenna with bidirectional end-fire and broadside radiation patterns," *Microwave and Optical Technology Letters*, Vol.56, Issue 8, pp. 1942-1946, 2014.
35. Yang Zhao, Kunpeng Wei, Zhijun Zhang, Zhenghe Feng, "A Bidirectional Waveguide Antenna with Polarization Reconfigurable Capability," *Microwave and Optical Technology Letters*, Vol.56, Issue 2, pp. 422-427, 2014.
36. Le Chang, Zhijun Zhang, Yue Li, "Array of Spatial Power Combination for Wide Angle Sector Coverage," *Microwave and Optical Technology Letters*, Vol.56, Issue 12, pp. 2990-2993, 2014.
37. Juha Virtanen, Fan Yang, Leena Ukkonen, Atef Z. Elsherbeni, Ali A. Babar, and Lauri Sydänheimo, "Dual port temperature sensor tag for passive UHF RFID systems", *Sensor*

- Review(Emerald Insight), vol. 34, no. 2, pp.154-169, 2014.
38. Ahmed H. Abdelrahman, Atef Z. Elsherbeni, and Fan Yang, "Transmitarray Antenna Design Using Cross-Slot Elements With No Dielectric Substrate," *IEEE Antennas and Wireless Propagation Letters*, vol. 13, pp. 177-180, February 2014.
  39. Ahmed H. Abdelrahman, Atef Z. Elsherbeni, and Fan Yang, "Transmission Phase Limit of Multilayer Frequency-Selective Surfaces for Transmitarray Designs," *IEEE Transactions on Antennas and Propagation*, vol. 62, no. 2, pp. 690-697, February 2014.
  40. Ahmed H. Abdelrahman, Atef Z. Elsherbeni, and Fan Yang, "High-Gain and Broadband Transmitarray Antenna Using Triple-Layer Spiral Dipole Elements," *IEEE Antennas and Wireless Propagation Letters*, vol. 13, pp. 1288-1291, June 2014.
  41. Payam Nayeri, Min Liang, Rafael A. Sabory-Garcia, Mingguang Tuo, Fan Yang, Michael Gehm, Hao Xin, Atef Z. Elsherbeni, "3D Printed Dielectric Reflectarrays: Low-Cost High-Gain Antennas at Sub-Millimeter Waves," *IEEE Transactions on Antennas and Propagation*, vol.62, no.4, pp.2000-2008, April 2014.
  42. Wenxing An, Shenheng Xu, Fan Yang, "A Metal-Only Reflectarray Antenna Using Slot-Type Elements," *IEEE Antennas and Wireless Propagation Letters*, vol.13, pp.1553-1556, 23 July 2014.
  43. Wenxing An, Shenheng Xu, Fan Yang, Jianfeng Gao, "A Ka-Band Reflectarray Antenna Integrated With Solar Cells," *IEEE Transactions on Antennas and Propagation*, vol.62, no.11, pp.5539-5546, Nov. 2014.
  44. Y.-J. Liu, J. Zhou, W. Chen, and B.-H. Zhou. "A robust augmented complexity- reduced generalized memory polynomial for wideband RF power amplifiers," *IEEE Transactions on Industrial Electronics*, Vol.61, No.5, pp.2389-2401, May, 2014.
  45. Wenhua Chen, Silong Zhang, Youjiang Liu, F.M. Ghannouchi, Zhenghe Feng, Yuanan Liu, "Efficient Pruning Technique of Memory Polynomial Models Suitable for PA Behavioral Modeling and Digital Predistortion," *IEEE Transactions on Microwave Theory and Techniques*, Vol.62, No.10, pp.2290-2299, Oct. 2014.

46. Shuo Jia, Wenhua Chen, Schreurs Dominique, "A Novel Doherty Transmitter Based on Antenna Active Load Modulation," IEEE Microwave and Wireless Component Letters, Vol.25, No.4, Apr. 2015
47. Yue Li and Nader Engheta, "Supercoupling of surface waves with  $\epsilon$ -near-zero metastructures," Physical Review B, 90, 201107(R), 2014.

#### 会议论文:

1. Changjiang Deng, Yue Li, Zhijun Zhang, and Zhenghe Feng, "A compact broadside/conical circularly polarized antenna for pattern diversity design," 2014 IEEE International Wireless Symposium (IWS), Xi'an, China, pp. 1-3, 24-26 March 2014.
2. Wei Liu, Zhenghe Feng, Di Wu, Study of a Planar Magnetic-electric Dipole Antenna, Antennas and Propagation (APCAP), IEEE Asia-Pacific Conference on. Harbin, China, 2014:627-630
3. Di WU, Zhenghe FENG, Wei LIU. A Novel Conical Horn Antenna Loaded with Ball Cone Dielectric. Antennas and Propagation (APCAP), IEEE Asia-Pacific Conference on, Harbin. China, 2014: 631-634.
4. Y. He Y. Lin and Z. Feng, "A Novel Dual-polarized Dielectric Resonator Antenna Designed for WLAN Applications," IEEE APCAP. 2014 , Page(s): 176- 177
5. Di Wu, Zheng-he Feng, Wei Liu. A novel conical horn antenna loaded with ball cone dielectric. 3rd Asia-Pacific Conference on Antennas and Propagation , China, 2014:631-634.
6. Wei Liu, Zheng-he Feng, Di Wu. Study of a Planar Magnetic- electric Dipole Antenna. 3rd Asia-Pacific Conference on Antennas and Propagation , China, 2014:627-630.
7. Xiang Gao, Zhengwei Du, "SPICE models of antennas for receiving," Antennas and Propagation Society International Symposium (APSURSI), 2014 IEEE, pp. 1135 - 1136, 2014.
8. Yan Wang, Zhengwei Du, "A wideband printed dual-antenna with a protruded ground for

mobile terminals," Antennas and Propagation Society International Symposium (APSURSI), 2014 IEEE, pp. 1133 - 1134, 2014.

9. Payam Nayeri, Fan Yang, and Atef Z. Elsherbeni, "The parabolic-torus-phase planar reflectarray antenna," USNC-URSI National Radio Science Meeting, Colorado, U.S., Jan. 2014.
10. Ahmed H. Abdelrahman, Fan Yang, and Atef Z. Elsherbeni, "Triple-layer transmitarray antenna designs," USNC-URSI National Radio Science Meeting, Boulder, Colorado, USA, January 2014.
11. Xiaohua Jin, Xunwang Dang, Fan Yang, "Compact 3-D cubic loop antennas with omnidirectional patterns," 2014 IEEE Antennas and Propagation Society International Symposium (APSURSI), Memphis, Tennessee, USA, pp.380,381, 6-11 July 2014.
12. Wenxing An, Shenheng Xu, Fan Yang, "Design of a Ku-band reflectarray antenna consisting of only metallic surfaces," 2014 IEEE Antennas and Propagation Society International Symposium (APSURSI), Memphis, Tennessee, USA, pp.795,796, 6-11 July 2014
13. Wenxing An, Shenheng Xu, Fan Yang, "Design of reflectarray element integrated with solar cells," 2014 IEEE Antennas and Propagation Society International Symposium (APSURSI), Memphis, Tennessee, USA, pp.801-802, 6-11 July 2014
14. Wenxing An, Shenheng Xu, Fan Yang, "A two-layer transmitarray antenna," 2014 IEEE Antennas and Propagation Society International Symposium (APSURSI), Memphis, Tennessee, USA, pp.864-865, 6-11 July 2014
15. Ruyuan Deng, Fan Yang, Shenheng Xu, "Design and comparison of four different reflectarray antennas towards THz applications," 2014 IEEE Antennas and Propagation Society International Symposium (APSURSI), Memphis, Tennessee, USA, pp.1019,1020, 6-11 July 2014.
16. Fang Guo, Yilin Mao, Shenheng Xu, Fan Yang, Elsherbeni, A.Z., "A modified parabolic-cylindrical reflectarray antenna for wide beam scanning capability," 2014 IEEE Antennas and Propagation Society International Symposium (APSURSI), Memphis,

Tennessee, USA, pp.1023-1024, 6-11 July 2014.

17. Payam Nayer, Fan Yang, Atef Z. Elsherbeni, "Offset parabolic-torus-phase reflectarray antenna," 2014 IEEE Antennas and Propagation Society International Symposium (APSURSI), Memphis, Tennessee, USA, pp.1025-1026, 6-11 July 2014.
18. Huanhuan Yang, Yilin Mao, Shenheng Xu, Fan Yang, Elsherbeni, A.Z., "Analysis and optimization of the scanning performance of 1-bit reconfigurable reflectarrays," 2014 IEEE Antennas and Propagation Society International Symposium (APSURSI), Memphis, Tennessee, USA, pp.1029,1030, 6-11 July 2014.
19. Abdelrahman, A.H., Nayeri, P., Elsherbeni, A.Z., Fan Yang, "Design of single-feed multi-beam transmitarray antennas," 2014 IEEE Antennas and Propagation Society International Symposium (APSURSI), Memphis, Tennessee, USA, pp.1264-1265, 6-11 July 2014
20. Abdelrahman, A.H., Nayeri, P., Elsherbeni, A.Z., Fan Yang, "Analysis and design of wideband transmitarray antennas with different unit-cell phase ranges," 2014 IEEE Antennas and Propagation Society International Symposium (APSURSI), Memphis, Tennessee, USA,, pp.1266-1267, 6-11 July 2014
21. Abdelrahman, A.H., Elsherbeni, A.Z., Fan Yang, "Broadband high gain triple-layer transmitarray antenna," 2014 IEEE Antennas and Propagation Society International Symposium (APSURSI), Memphis, Tennessee, USA, pp.1270-1271, 6-11 July 2014
22. Qian Qiao, Li Zhang, Fan Yang, Zhenxing Yue, Elsherbeni, A.Z., "A high sensitivity capacitively-loaded UHF RFID temperature sensor tag using PTFE material," 2014 IEEE Antennas and Propagation Society International Symposium (APSURSI), Memphis, Tennessee, USA, pp.1310-1311, 6-11 July 2014.
23. Zhewei Fu, Fan Yang, "Reconfigurable slotted patch antenna controlled by thermal switch for temperature monitoring," 2014 IEEE Antennas and Propagation Society International Symposium (APSURSI), Memphis, Tennessee, USA, pp.1508-1509, 6-11 July 2014.
24. Bui Van Ha, Paola Pirinoli, Orefice, M., and Fan Yang, "Wideband conformal reflectarrays:



- Preliminary analysis," 2014 International Conference on Electromagnetics in Advanced Applications (ICEAA), Palm Beach, Aruba, pp.842-843, 3-8 Aug. 2014.
25. Ruyuan Deng, Fan Yang, Shenheng Xu, and Paola Pirinoli, "Terahertz reflectarray antennas: An overview of the state-of-the-art technology," 2014 International Conference on Electromagnetics in Advanced Applications (ICEAA), Palm Beach, Aruba, pp. 667-670, 17-23 August 2014.
  26. Jun Luo, Fan Yang, and Shenheng Xu, "E-shaped Element Design for Linearly Polarized Transmitarray Antennas", International Symposium on Antennas and Propagation (ISAP), Kaohsiung, Taiwan, pp. 269-270, 2-5 December 2014.
  27. Ruyuan Deng, Shenheng Xu, and Fan Yang, "A High-Efficiency Single-Layer Dual-Band Circularly Polarized Reflectarray Antenna," 2014 International Symposium on Antennas and Propagation (ISAP) , Kaohsiung, Taiwan, pp. 433-434, 2-5 December 2014.
  28. Xiaolin Zhu, Shenheng Xu, Fan Yang, "Design of an L-Band Reflectarray Antenna for BeiDou Satellite Applications,"2014 International Symposium on Antennas and Propagation (ISAP), Kaohsiung, Taiwan, pp. 297-298, 2-5 December 2014.
  29. Fan Yang, Qian Qiao, Li Zhang, Zhenxing Yue and Atef Z. Elsherbeni, "High-Sensitivity RFID Sensing Antennas: From Sensing Mechanism Selections to Antennas Structure Designs," 2014 XXXIth URSI General Assembly and Scientific Symposium (URSI GASS), Beijing, China, PP. 1-4, 16-23 August 2014.
  30. Fan Yang, Payam Nayeri, and Atef Z. Elsherbeni, "Recent advances in beam-scanning reflectarray antennas,"2014 XXXIth URSI General Assembly and Scientific Symposium (URSI GASS), Beijing, China, PP. 1-4, 16-23 August 2014.
  31. Wenhua Chen, Xiaofan Chen, Silong Zhang, Zhenghe Feng, "Energy-Efficient Concurrent Dual-Band Transmitter for Multistandard Wireless Communications," Asia Pacific Microwave Conference, pp.558-560, Nov. 2014.
  32. Jing Li, Jianli Liu, Wenhua Chen, Gongzhe Su, Zonghao Wang, "A 600W Broadband Three-Way Doherty Power Amplifier for Multistandard Wireless Communications,"

IEEE International Microwave Symposium, pp.1-4, May, 2015.