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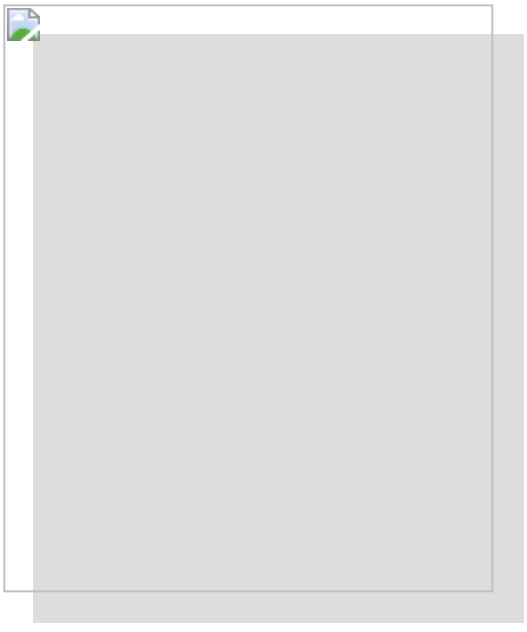

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葛磊，男，深圳大学电子与信息工程学院副教授，硕士生导师，孔雀计划C类海外高层次人才，深圳大学“荔园优青”，深圳大学新锐导师。

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研究方向: 天线与电路技术

个人简介:

葛磊，男，深圳大学电子与信息工程学院副教授，硕士生导师，孔雀计划C类海外高层次人才，深圳大学"荔园优青"，深圳大学新锐导师。于2015年获得香港城市大学电子工程系哲学博士学位，师从英国皇家工程院院士、IEEE Fellow陆贵文教授。长期从事新一代移动通信天线、基站天线、智能天线、毫米波天线以及射频电路等领域研究，作为项目负责人主持国家自然科学基金面上项目、广东省重大项目课题项目、国家自然科学基金青年项目、深圳市科创委等多个纵向及横向项目。近些年来在国际学术期刊会议上共发表论文80余篇，其中SCI收录60余篇，包括天线、微波领域顶级期刊IEEE Transactions论文30余篇，论文被引用1000余次。目前是IEEE Senior Member，同时担任国际期刊IEEE Access副主编、International Journal of RF and Microwave Computer-Aided Engineering编委，担任IEEE Transactions on AP等多个国际期刊评审，并获得2018年度天线与传播协会杰出审稿人奖。是深圳大学天线与电路技术实验室（ACT Lab）负责人，所带领团队当前包括研究员、博士后、博士和硕士研究生共计10余人，常年招募天线和射频领域博士后等研究人员，招收对天线、射频电路感兴趣的研究生。

研究方向:

新一代移动通信天线系统、基站天线、智能天线、毫米波天线、射频电路

主持项目:

1 国家自然科学基金面上项目（批准号：**62071308**，2021.01-2024.12，**55**万元）“高集成度宽频带辐射方向可重构天线关键技术研究”

2 广东省重点领域研发计划（批准号：**2020B0101080001**，2020.06-2023.06，**100**万元）“面向基站的大规模无线通信新型天线与射频技术研究”

3 国家自然科学基金青年项目（批准号：**61601303**，2017.01-2019.12，**22**万元）“面向高速移动通信的波束宽度可重构磁电偶极子天线关键技术研究”

4 深圳市基础研究项目（批准号：**JCYJ20170817095519575**，2018.01-2019.12，**30**万元）“面向第五代移动通信的大规模MIMO基站天线关键技术研究”

5 深圳大学高层次人才启动项目（批准号：**000158**，2017.01-2019.12，**300**万元）“无线通信中高性能、多功能天线及无源电路研究”

6 深圳市基础研究项目（批准号：**JCYJ20160308095149392**，2016.07-2018.6，**29**万元）“用于高速移动通信的波束宽度可重构磁电偶极子天线关键技术研究”

7 横向项目（批准号：**009464**，2016.12-2019.6，**50**万元）“金属环形开槽可重构天线”

8 深圳大学新引进教师科研启动项目（批准号：**2016022**，2016.07-2018.6，**6**万元）“认知无线电波束宽度可重构天线关键理论与技术研究”

代表性论文：

1. J. Hu, X. J. Yang, **L. Ge***, Z. J. Guo, Z. C. Hao and H. Wong, “A Reconfigurable 1×4 Circularly Polarized Patch Array Antenna with Frequency, Radiation Pattern, and Polarization Agility”, **IEEE Transactions on Antennas and Propagation**, to be published. (通讯作者)

2. X. J. Yang, **L. Ge***, Y, Ji, X. R. Zeng, Y. J. Li, C. Ding, J. Sun and K. M. Luk, “An Integrated Tri-Band Antenna System with Large Frequency Ratio for WLAN and WiGig Applications”, **IEEE Transactions on Industrial Electronics**, vol. 68, no. 5, pp. 4529-4540, May. 2021. (通讯作者)

3. J. X. Wang, Y. J. Li, J. H. Wang, **L. Ge**, M. Chen, Z. Zhang and Z. Li, “A Low-Profile Vertically Polarized Magneto-Electric Monopole Antenna With a 60% Bandwidth for Millimeter-Wave Applications”, **IEEE Transactions on Antennas and**

Propagation, vol. 69, no. 1, pp. 3-13, Jan. 2021.

4. F. Q. Sun, Y. J. Li, **L. Ge** and J. H. Wang, “Millimeter-Wave Magneto-Electric Dipole Antenna Array With a Self-Supporting Geometry for Time-Saving Metallic 3-D Printing”, **IEEE Transactions on Antennas and Propagation**, vol. 68, no. 12, pp. 7822-7832, Aug. 2020.

5. L. Zhang, Y. H. Sun, Y. J. He, S.-W. Wong, C. Mao, **L. Ge** and S. Gao, “A Quad-Polarization Reconfigurable Antenna With Suppressed Cross Polarization Based on Characteristic Mode Theory”, **IEEE Transactions on Antennas and Propagation**, vol. 69, no. 2, pp. 636-647, Aug. 2020.

6. Y. Liu, Y. J. Li, **L. Ge**, J. H. Wang, and B. Ai, “A Compact Hepta-Band Mode-Composite Antenna for Sub (6, 28, and 38) GHz Applications”, **IEEE Transactions on Antennas and Propagation**, vol. 68, no. 4, pp. 2593-2602, Apr. 2020.

7. H. W. Lin, Q. G. Chen, Y. Ji, X. J. Yang, J. P. Wang, and **L. Ge***, “Weak-Field-Based Self-Decoupling Patch Antennas”, **IEEE Transactions on Antennas and Propagation**, vol. 68, no. 6, pp. 4208-4217, Feb. 2020. (通讯作者)

8. Y. J. Li, **L. Ge**, J. H. Wang, M. Chen, Z. Zhang, and Z. Li, “A Ka-Band 3D-Printed Wideband Stepped Waveguide Fed Magneto-Electric Dipole Antenna Array”, **IEEE Transactions on Antennas and Propagation**, vol. 68, no. 4, pp. 2724-2735, Apr. 2020.

9. Y. Ji, **L. Ge***, J. P. Wang, Q. G. Chen, W. Wu, and Y. J. Li, “Reconfigurable phased-array antenna using continuously tunable substrate integrated waveguide phase shifter”, **IEEE Transactions on Antennas and Propagation**, vol. 67, no. 11, pp. 6894-6908, Nov. 2019. (通讯作者)

10**.** X. J. Yang, **L. Ge***, Y. Ji, X. R. Zeng, and K. M. Luk, “Design of low-profile multi-band half-mode substrate-integrated waveguide antennas”, **IEEE Transactions on Antennas and Propagation**, vol. 67, no. 10, pp. 6639-6644, Oct. 2019. (通讯作者)

11. Y. J. Li, **L. Ge**, J. H. Wang, S. Da, D. Cao, J. X. Wang, and Y. Liu, “3D printed high-gain wideband waveguide fed horn antenna arrays for millimeter-wave applications”, **IEEE Transactions on Antennas and Propagation**, vol. 67, no. 5, pp. 2868-2877, May. 2019.

12. Y. J. Li, **L. Ge**, M. E. Chen, Z. Zhang, Z. Li, and J. X. Wang, “Multi-beam 3D printed Luneburg lens fed by magneto-electric dipole antennas for millimeter-wave MIMO applications”, **IEEE Transactions on Antennas and Propagation**, vol. 67, no. 5, pp. 2923-2933, May. 2019.

13. Q. G. Chen, H. W. Lin, J. P. Wang, **L. Ge***, Y. J. Li, T. Q. Pei, and C. Y. D. Sim, ″Single ring slot- based antennas for metal-rimmed 4G/5G smartphones,″ **IEEE Transactions on Antennas and Propagation**, vol. 67, no. 3, pp. 1476-1487, Mar. 2019. (通讯作者)

14. **L. Ge**, S. Gao, Y. J. Li, W. Qin, and J. P. Wang, “A low-profile dual-band antenna with different polarization and radiation properties over two bands for vehicular communications,” **IEEE Transactions on Vehicular Technology**, vol. 68, no. 1, pp. 1004-1008, Jan. 2019.

15. J. X. Wang, Y. J. Li, **L. Ge**, J. H. Wang, M. E. Chen, Z. Zhang, and Z. Li, “Millimeter-wave wideband circularly polarized planar complementary source antenna with end-fire radiation,” **IEEE Transactions on Antennas and Propagation**, vol. 66, no. 7, pp. 3317-3326, Jul. 2018.

16. **L. Ge**, M. J. Li, Y. J. Li, H. Wong, and K. M. Luk, “Linearly polarized and circularly polarized wideband dipole antennas with reconfigurable beam direction,” **IEEE Transactions on Antennas and Propagation**, vol. 66, no. 4, pp. 1747-1755, Apr. 2018.

17. J. X. Wang, Y. J. Li, **L. Ge**, J. H. Wang, and K. M. Luk, “A 60 GHz horizontally polarized magnetoelectric dipole antenna array with 2-D multibeam endfire radiation,” **IEEE Transactions on Antennas and Propagation**, vol. 65, no. 11, pp. 5837-5845, Nov. 2017.

18. J. X. Wang, Y. J. Li, **L. Ge**, J. H. Wang, M. E. Chen, Z. Zhang, and Z. Li, "Wideband dipole array loaded substrate integrated H-plane horn antenna for millimeter waves," **IEEE Transactions on Antennas and Propagation**, vol. 65, no. 10, pp. 5211-5219, Oct. 2017.

19. **L. Ge**, Y. J. Li, J. P. Wang, and C. Y. D. Sim, "A low-profile reconfigurable cavity-backed slot antenna with frequency, polarization and radiation pattern agility," **IEEE Transactions on Antennas and Propagation**, vol. 65, no. 5, pp. 2182-2189, May. 2017.

20. **L. Ge**, K. M. Luk, and S. C. Chen, ″360-degree beam-steering reconfigurable wideband substrate integrated waveguide horn antenna,″ **IEEE Transactions on Antennas and Propagation**, vol. 64, no. 12, pp. 5005-5011, Dec. 2016.

21. M. J. Li, K. M. Luk, **L. Ge**, and K. Zhang, ″Miniaturization of magneto-electric dipole antenna by using metamaterial loading,″ **IEEE Transactions on Antennas and Propagation**, vol. 64, no. 11, pp. 4914-4918, Nov. 2016.

22. **L. Ge** and K. M. Luk, ″Linearly polarized and dual-polarized magneto-electric dipole antennas with reconfigurable beamwidth in the H-plane,″ **IEEE Transactions on Antennas and Propagation**, vol. 64, no. 2, pp. 423-431, Feb. 2016.

23. **L. Ge** and K. M. Luk, "Frequency-reconfigurable low-profile circular monopolar patch antenna," **IEEE Transactions on Antennas and Propagation**, vol. 62, no. 7, pp. 3443-3449, Jul. 2014.

24. **L. Ge** and K. M. Luk, "A band-reconfigurable antenna based on directed dipole," **IEEE Transactions on Antennas and Propagation**, vol. 62, no. 1, pp. 64-71, Jan. 2014.

25. **L. Ge** and K. M. Luk, "A magneto-electric dipole for unidirectional UWB communications," **IEEE Transactions on Antennas and Propagation**, vol. 61, no. 11, pp. 5762-5765, Nov. 2013.

26. **L. Ge** and K. M. Luk, “A wideband magneto-electric dipole antenna,” **IEEE Transactions on Antennas and Propagation**, vol. 60, no. 11, pp. 4987-4991, Nov. 2012.

27. **L. Ge** and K. M. Luk, “A low-profile magneto-electric dipole antenna,” **IEEE Transactions on Antennas and Propagation**, vol. 60, no. 4, pp. 1684-1689, Apr. 2012.

实验平台：

所负责的天线与电路系统实验室具备的实验设备和条件包括：6.5-GHz Keysight矢量网络分析仪E5080A、50-GHz Keysight矢量网络分析仪N5225A、20-GHz Keysight信号发生器N5173B、6-GHz 16探头球面天线测试平台、50-GHz平面扫描天线测试平台以及高性能工作站在内的十余台高性能PC机。

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