

个人资料

硕士学科： 电气工程

姓 名： 曲荣海

性 别： 男

最高学历： 博士

职 称： 教授

职 务： 强电磁工程与新技术国家重点实验室副主任

E-mail : yuwen026@sina.com (联系马霁旻老师)

电 话： 18971070086 (联系马霁旻老师)

研究方向： 新型电机及其驱动控制系统



:: 个人简介:

国家“千人计划”特聘专家，IEEE 高级会员，IEEE 多个会议和期刊审稿人，Sigma Xi 会员，中国电工技术学会高级会员。华中科技大学教授、博导，现任校学位评定委员会委员，强电磁工程与新技术国家重点实验室副主任，电机及控制工程系主任，新型电机国家地方联合工程研究中心主任，创新电机技术研究中心主任。科技部 2014 年创新人才推进计划重点领域创新团队成员。

1993、1996 年分获清华大学学士、硕士学位。2002 年获美国威斯康辛大学麦迪逊分校博士学位。博士毕业后，任美国通用电气公司（GE）全球研发中心总部高级专业工程师。2009 年入选国家“千人计划”特聘专家，2010 年全职回国加入华中科技大学。

2011 年 9 月成立创新电机技术研究中心，中心定位于基础和应用研究，立足国际科技前沿，以满足国家重大战略需求为出发点，以培养具有创新精神、实践能力、全面发展的高层次人才为目标，力争在电机设计和驱动控制技术方面成为世界一流的科技创新研究平台。

:: 目前主持或作为主要成员参与的科研项目:

- [1] 机器人等高端装备用伺服电机数字化车间(工信部智能制造综合标准化和新模式应用项目)150 万元，项目负责人。
- [2] 国家自然科学基金国际合作项目：游标永磁直线伺服电机系统研究。289 万元，项目负责人。
- [3] 国家自然科学基金重点项目：磁场调制永磁电机系统基础理论及应用技术研究。300 万元，项目负责人。

:: 已发表的代表性研究成果或科研论文:

Z. Fang, D. Jiang, Z. Shen and R. Qu, "Impact of application of SiC devices in motor drive on EMI," 2017 IEEE Applied Power Electronics Conference and Exposition (APEC), Tampa, FL, 2017, pp. 652-658.

T. Zou, D. Li, R. Qu and D. Jiang, "Performance Comparison of Surface and Spoke-Type Flux-Modulation Machines With Different Pole Ratios," in IEEE Transactions on Magnetics, vol. 53, no. 6, pp. 1-5, June 2017.

doi: 10.1109/TMAG.2017.2662081

S. Jia, R. Qu, J. Li, D. Li and H. Lu, "Comparison of Stator DC Current Excited Vernier Reluctance Machines With Different Field Winding Configurations," in *IEEE Transactions on Magnetics*, vol. 53, no. 6, pp. 1-4, June 2017.

Y. Gao, R. Qu, D. Li and F. Chen, "Force Ripple Minimization of a Linear Vernier Permanent Magnet Machine for Direct-Drive Servo Applications," in *IEEE Transactions on Magnetics*, vol. 53, no. 6, pp. 1-5, June 2017.

S. Jia, R. Qu, D. Li, J. Li and W. Kong, "Improved Torque Capacity for Flux Modulated Machines by Injecting DC Currents Into the Armature Windings," in *IEEE Transactions on Magnetics*, vol. 53, no. 6, pp. 1-5, June 2017.

K. Xie, D. Li, R. Qu and Y. Gao, "A Novel Permanent Magnet Vernier Machine With Halbach Array Magnets in Stator Slot Opening," in *IEEE Transactions on Magnetics*, vol. 53, no. 6, pp. 1-5, June 2017.

S. Jia, R. Qu, J. Li, D. Li and W. Kong, "A Stator-PM Consequent-Pole Vernier Machine With Hybrid Excitation and DC-Biased Sinusoidal Current," in *IEEE Transactions on Magnetics*, vol. 53, no. 6, pp. 1-4, June 2017.

doi: 10.1109/TMAG.2017.2665580

N. Duan, W. Xu, S. Wang, J. Zhu, R. Qu and S. Jia, "A Temperature-Dependent Hysteresis Model for Soft Ferrites," in *IEEE Transactions on Magnetics*, vol. 53, no. 6, pp. 1-4, June 2017.

T. Zou, D. Li, R. Qu, J. Li and D. Jiang, "Analysis of a Dual-Rotor, Toroidal-Winding, Axial-Flux Vernier Permanent Magnet Machine," in *IEEE Transactions on Industry Applications*, vol. 53, no. 3, pp. 1920-1930, May-June 2017.

Y. Gao, R. Qu, D. Li and J. Li, "Torque Performance Analysis of Three-Phase Flux Reversal Machines," in *IEEE Transactions on Industry Applications*, vol. 53, no. 3, pp. 2110-2119, May-June 2017.

W. Kong, R. Qu, M. Kang, J. Huang and L. Jing, "Air-Gap and Yoke Flux Density Optimization for Multiphase Induction Motor Based on Novel Harmonic Current Injection Method," in *IEEE Transactions on Industry Applications*, vol. 53, no. 3, pp. 2140-2148, May-June 2017.

X. Ren; D. Li; R. Qu; T. Zou, "A Brushless Dual-mechanical-port Dual-electrical-port Machine with Spoke Array Magnets in Flux Modulator," in *IEEE Transactions on Magnetics*, vol. PP, no. 99, pp. 1-1

: : 已获得的教学研究成果或奖励:

电气与电子工程学院硕士研究生导师简介