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师资队伍

电气工程系

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自动化系 (../szdw/zdhx.htm)

电子信息工程系

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通信工程系

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现代电工电子技术中心

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电气电子国家级实验教学中心

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电气与自动化实验中心

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李超

Date: 2020年08月01日

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学科专业: 电气工程

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主要经历:

- (1) 2020.01-至今 天津大学, 电气工程系, 副教授
- (2) 2019.10-2019.11 德国卡尔斯鲁厄理工大学, 应用物理所, 访问科学家
- (3) 2016.01-2019.11 英国剑桥大学工程系, 电气工程专业, 博士
- (4) 2012.09-2015.07 天津大学电气工程系, 电气工程专业, 硕士
- (5) 2008.09-2012.07 华南理工大学电力学院, 电气工程专业, 学士

主要研究方向:

- (1) 智能电网保护与控制
- (2) 高温超导应用技术
- (3) 超导磁体无线励磁技术

代表性论著、学术著作:

发表SCI检索论文30余篇, 代表性论文如下:

- (1) C. Li, J. Yang, B. Shen, J. Ma, J. Gawith, Geng, and T. A. Coombs, "A HTS Flux Pump Simulation methodology Based on the Electrical Circuit," *IEEE Transactions on Applied Superconductivity*, vol. 30, no. 4, pp. 1-5, 2020
- (2) C. Li, J. Geng, B. Shen, J. Ma, J. Gawith, and T. A. Coombs, "Investigation on the Transformer-Rectifier Flux Pump for High Field Magnets," *IEEE Transactions on Applied Superconductivity*, vol. 29, no. 5, pp. 4301105, 2019
- (3) C. Li, J. Geng, J. Gawith, B. Shen, X. Zhang, H. Zhang, J. Ma, and T. A. Coombs, "Design for A Persistent Current Switch Controlled by Alternating Current Magnetic Field," *IEEE Transactions on Applied Superconductivity*, vol. 28, no. 4, pp. 4603205, 2018.
- (4) C. Li, J. Geng, B. Shen, X. Li, J. Gawith, J. Ma, J. Yang, and T. A. Coombs, "Persistent Current Switch for HTS Superconducting Magnets: Design, Control Strategy and Test Results," *IEEE Transactions on Applied Superconductivity*, vol. 29, no. 2, pp. 4900704, 2019.
- (5) C. Li, J. Geng, B. Shen, J. Ma, J. Gawith, and T. A. Coombs, "Second harmonic in the voltage of dc-carrying YBCO tape under a perpendicular alternating magnetic field (https://www.sciencedirect.com/science/article/pii/S0921453418304246)," *Physica C: Superconductivity and its Applications*, vol. 564, pp. 11-16, 2019
- (6) B. Shen, C. Li*, G. Jianzhao, D. Qihuan, M. Jun, J. Gawith, and T. A. Coombs, "Investigation on Power Dissipation in the Saturated Iron-core Superconducting Fault Current Limiter," *IEEE Transactions on Applied Superconductivity*, vol. 29, no. 2, pp. 5600305, 2019
- (7) B. Shen, C. Li*, G. Jianzhao, D. Qihuan, M. Jun, J. Gawith, and T. A. Coombs, "Power Dissipation in the HTS Coated Conductor Tapes and Coils Under the Action of Different Oscillation Currents and Fields," *IEEE Transactions on Applied Superconductivity*, vol. 29, no. 5, pp. 8201105, 2019
- (8) Bin Li, Chao Li*, Fengrui Guo, "Application studies on the Active SISFCL in Electric Transmission System and its Impact on Line Distance Protection" *IEEE Transactions on Applied Superconductivity* (该论文被选为主编选为 recommended paper)
- (9) Bin Li, Chao Li*, Fengrui Guo, Ying Xin, "Overcurrent Protection Coordination in a Power Distribution Network with the Active Superconductive Fault Current Limiter" *IEEE Transactions on Applied Superconductivity*, vol. 24, No. 5, 2014;
- (10) Bin Li, Chao Li*, Fengrui Guo, Ying Xin, Chuncheng Wang and Xueyue Pang "Coordination of Superconductive Fault Current Limiters with Zero-sequence Current Protection of Transmission Lines" *IEEE Transactions on Applied Superconductivity*, vol. 24, No. 5, 2014;



- (11) Bin Li, **Chao Li***, Jiali He, Zhiqian Bo and Tony Yip "Novel Principle and Adaptive Scheme of Phase Correlation Line Current Differential Protection" *International Transactions On Electrical Energy Systems*, vol 23, No.5, pp 733-750, 2013;
- (12) J. Geng, **C. Li**, and T. A. Coombs, "A Fast AC Field Controlled Impedance in HTS Coated Conductors: Response Speed and Electric Field Value," *IEEE Transactions on Applied Superconductivity*, vol. 27, no. 6, pp. 1-5, 2017. (该论文被选为主编选为 recommended paper)
- (13) B. Shen, **C. Li**, J. Gen, X. Zhang, J. Gawith, J. Ma, Y. Liu, F. Grilli, and T. A. Coombs, "Power dissipation in HTS coated conductor coils under the simultaneous action of AC and DC currents and fields," *Superconductor Science and Technology*, vol. 31, no. 7, pp. 075005, 2018.
- (14) J. Gawith, J. Geng, **C. Li**, B. Shen, X. Zhang, J. Ma, and T. A. Coombs, "A Half-Bridge HTS Transformer-Rectifier Flux Pump with two AC field-controlled switches," *Superconductor Science and Technology*, vol. 31, no. 8, pp. 085002, 2018.
- (15) J. Geng, B. Shen, **C. Li**, H. Zhang, K. Matsuda, J. Li, X. Zhang, and T. A. Coombs, "Voltage-ampere characteristics of YBCO coated conductor under inhomogeneous oscillating magnetic field," *Applied Physics Letters*, vol. 108, no. 26, pp. 262601, 2016.
- (16) J. Geng, H. Zhang, **C. Li**, X. Zhang, B. Shen, and T. A. Coombs, "Angular dependence of direct current decay in a closed YBCO double-pancake coil under external AC magnetic field and reduction by magnetic shielding," *Superconductor Science and Technology*, vol. 30, no. 3, pp. 035022, 2017.
- (17) J. Gawith, J. Geng, J. Ma, B. Shen, **C. Li**, and T. A. Coombs. HTS Transformer-Rectifier Flux Pump Optimization. *IEEE Transactions on Applied Superconductivity*, vol. 29, no. 5, 1-5, 2019.
- (18) J. Ma, J. Geng, J. Gawith, H. Zhang, **C. Li**, B. Shen, Q. Dong, J. Yang, J. Chen, Z. Li, and T. A. Coombs, "Rotating Permanent Magnets Based Flux Pump for HTS No-Insulation Coil," *IEEE Transactions on Applied Superconductivity*, vol. 29, no. 5, pp. 1-6, 2019.
- (19) H. Zhang, J. Geng, B. Shen, L. Fu, X. Zhang, **C. Li**, J. Li, and T. A. Coombs, "Magnetization of coated conductor stacks using flux pumping," *IEEE Transactions on Applied Superconductivity*, vol. 27, no. 4, pp. 1-5, 2017.

主要学术成就、奖励及荣誉:

- (1) 2016-2019 Cambridge Trust Scholarship, full scholarship, Cambridge Overseas Trust
- (2) 2018 IOP Early Career Researchers Fund, Institute of Physics, UK
- (3) 2017 Alwyn Heong Fund, Downing College, University of Cambridge

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