



师资队伍/个人信息

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研究领域	<ol style="list-style-type: none"> 1. 新能源汽车再生制动技术。 2. 新能源汽车储能系统能量管理技术。 3. 汽车复合制动技术。 			
承担项目	<p>主持的项目：</p> <ol style="list-style-type: none"> 1. 电动汽车动力系统能量管理策略研究(横向项目)。 2. 基于城市工况下的电动客车并联再生制动策略研究，江苏省农机局科研启动基金项目（Gxz10003）。 3. 电动微型面包车再生制动控制策略与性能仿真，江苏省农机局科研启动基金项目（GXZ05004）。 <p>参与的项目：</p> <ol style="list-style-type: none"> 1. 融合制动感觉一致性和制动稳定性多目标协调控制的纯电动汽车电液复合制动耦合系统机理研究，国家自然科学基金资助项目（51005113） 			
1. 学术成果	<p>主要论文：</p> <ol style="list-style-type: none"> 1. Zhao Guo-Zhu, Huang Xiang and Peng Xing. Adaptive Model Predictive Control Research on Regenerative Braking for Electric Bus Cruising Downhill, Journal of Advanced Manufacturing Systems[J], 2016, 15, (3): 133-150 2. Zhao Guo-zhu, Peng Xing. Variable Structure Control Strategy Research on Regenerative Braking for a Brushless DC Motor Driven Electric Bus Cruising Downhill, Journal of Advanced Manufacturing Systems[J], 2014, 13(4): 223-237. 3. 赵国柱，韩 英，魏民祥等. PWM 调制方案对无刷直流电机电动汽车再生 ABS 的影响[J]，重庆大学学报(自然科学版)，2014，37（2）：31-36. 4. 赵国柱，魏民祥. 无刷直流电机电动汽车再生 ABS 双闭环控制研究 [J]，汽车工程，2013，35（4）：307-311. 5. 赵国柱，魏民祥，李玉芳. 利用惯性比例阀增强电动公交车制动能回收力[J]，重庆大学学报(自然科学版)，2012.35（4）：26-32. 6. 赵国柱，滕建辉，魏民祥. 基于模糊控制的电动汽车低速再生 ABS 研究[J]，中国机械工程，2012.23(1)：117-121. 7. 赵国柱，魏民祥，李玉芳，等. 基于滑模控制的电动汽车再生制动防抱死研究[J]，现代制造工程，2012.（1）：26-30. 8. 赵国柱，杨正林，李玉芳等. 电动汽车低速电气制动防抱死功能的研究[J]，计算机仿真，2012.29（1）：304-307. 			

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| <ol style="list-style-type: none">9. 赵国柱, 魏民祥. 电源特性对电子机械制动防抱死性能的影响研究[J]. 机械技术与科学, 2011.30(1): 108-111.10. 赵国柱, 魏民祥. 电动城市客车再生 ABS 系统的建模与仿真[J]. 南京航空航天大学学报, 2010.42(2): 256-261.11. 赵国柱, 魏民祥. 缓速器与行车制动系复合制动稳定性的定量评价[J]. 兵工学报, 2009, 30(2): 185-189.12. 赵国柱, 杨正林, 魏民祥, 等. 基于 ECE 法规的电动汽车再生制动控制策略的建模与仿真[J]. 武汉理工大学学报(交通科学与工程版). 2008, 32(1): 149-152.13. 赵国柱, 魏民祥, 杨正林. 基于制动稳定性要求的 ADVISOR 再生制动模块的开发[J]. 机械与电子, 2007, (6):10-13.14. 赵国柱, 杨正林, 魏民祥, 等. 电动微型客车的机电复合制动稳定性分析[J]. 汽车工程, 2006, 28(7):681-684.15. 赵国柱, 杨正林, 串联式混合动力城市汽车控制策略的技术现状与发展[J]. 拖拉机与农用运输车, 2005(5):4-7 |
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Teaching staff/ Personal information

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Unit address	40 Dianjiangtai Road Nanjing, Jiangsu Province, PR. China	Post code	210031	
Research field	<ol style="list-style-type: none"> 1. Regenerative braking technology for new energy vehicle; 2. Energy management technology for the energy storage system of new energy vehicle; 3. Composite braking technology for automobile 			
Research projects	<ol style="list-style-type: none"> 1. Study on energy management strategy for Electric vehicle power system, supported by Nanjing Green Bay Automobile Technology Limited Company. 2. Study on the parallel regenerative braking strategy for hybrid-electric city transit bus, supported by the Scientific Research Foundation of Jiangsu Province Agricultural Bureau, 2009. (item number: Gxz10003) (completed). 3. Simulation of control strategy and it's performance for the regenerative brake system of an Electric Mini-Bus, supported by the Scientific Research Foundation of Jiangsu Province Agricultural Bureau, 2005. (item number: GXZ05004) (completed). 4. Study on the mechanism of coordination control of electro-hydraulic brake system of pure electric vehicles for consistency of brake pedal feel and braking stability, supported by the National Science Foundation of China, 2010. (item number:51005113) (completed). 			
Academic achievements	<p>Selected papers</p> <ol style="list-style-type: none"> 1. Zhao Guo-Zhu, Huang Xiang and Peng Xing. Adaptive Model Predictive Control Research on Regenerative Braking for Electric Bus Cruising Downhill, Journal of Advanced Manufacturing Systems[J], 2016, 15, (3): 133–150. 2. Zhao Guo-zhu, Peng Xing. Variable Structure Control Strategy Research on Regenerative Braking for a Brushless DC Motor Driven Electric Bus Cruising Downhill, Journal of Advanced Manufacturing Systems[J], 2014, 13(4): 223-237. 3. Zhao Guo-zhu, Han Ying, Wei Min-xiang, et al. Effect of the PWM Modulation Scheme on the Regenerative Anti-lock Braking System of the Electric Vehicle Drived by a Permanent Magnet Brushless DC Motor, Chongqing Daxue Xuebao/Journal of Chongqing University, 			

- 2014, 37 (2):31-36(in chinese).
4. Zhao, Guozhu Wei Minxiang. Research on dual-loop regulation strategies of the regenerative antilock braking system of the electric vehicle driven by brushless DC motor. *Journal of Automotive Engineering*, 2013, 35 (4) :307-311 (in chinese).
 5. Zhao Guozhu, Wei Minxiang, Li Yufang. Enhancement of the energy regeneration capability of an electric urban bus using inertia proportional valve. *Chongqing Daxue Xuebao/Journal of Chongqing University*, 2012, 35 (4):26-32 (in chinese).
 6. Zhao Guozhu, Teng Jianhui, Wei Minxiang, et al. Study on low-speed regenerative braking of electric vehicle as antilock braking system based on fuzzy control. *China Mechanical Engineering*, 2012, 23 (337):117-121 (in chinese).
 7. Zhao Guozhu, Yang Zhenglin, LI Yufang, WEI Min-xiang. Study on low-speed electric braking of electric vehicle as antilock braking system. *Computer Simulation*, 2012, 29(1): 304-308. (in chinese).
 8. Zhao Guozhu, Wei Minxiang, Li Yufang, Han Ying. The study on the regenerative anti-lock braking system of electric vehicle based on sliding mode control. *Modern Manufacturing Engineering*, 2012, (1):26-30. (in chinese).
 9. Zhao, Guozhu, Wei, Minxiang. Study on the effect of the characteristics of power supply on the anti-lock braking behaviors of brake-by-wire system. *Mechanical Science and Technology for Aerospace Engineering* 2011, 30 (1):108-111 (in chinese).
 10. Zhao, Guozhu, Wei, Minxiang, Yang, Zhenglin. Modeling and simulation of regenerative braking of electric bus in antilock braking system. *Journal of Nanjing University of Aeronautics and Astronautics*. 2010, 42 (2) : 256-261 (in chinese).
 11. Zhao, Guozhu, Wei, Minxiang. Quantitative evaluation on the braking stability of the composite braking system composed of a retarder and a service-brake system. 2009, 30(2) :185-189 (in chinese).
 12. Zhao, Guozhu, Yang, Zhenglin, Wei, Minxiang, et al. ECE regulation based modeling and simulation of control strategy for regenerative braking in EV and HEV. *Journal of Wuhan University of Technology (Transportation Science and Engineering)*, 2008, 32(1) :149-152 (in chinese). (in chinese).
 13. Zhao, Guozhu, Wei, Minxiang, Yang, Zhenglin. The development of a module for the regenerative braking in ADVISOR based on the braking stability. *Journal of Machinery & Electronics*, 2007, (176) :10-13 (in chinese).
 14. Zhao guozhu, Yang zhenglin, Wei minxiang, et al. The braking stability analysis of the hybrid mechanical and electric brake for an electric mini-bus. *Journal of Automotive Engineering*, 2006, 28 (7) :681-684 (in chinese).
 15. Zhao Guozhu, Yang Zhenglin, Energy Management strategies of series hybrid electric transit bus. *Tractor & Farm Transporter*, 2005,(5):4-7. (in chinese).