

<p>师资队伍</p> <p>仪器科学与技术</p> <p>电气工程</p> <p>080800电气工程</p> <p>控制科学与工程</p> <p>兵器科学与技术</p> <p>生物医学工程</p>	<p>您现在的位置: 首页 师资队伍 电气工程 080800电气工程 硕导</p> <p style="text-align: center;">吴红飞</p> <p style="text-align: center;">文 访问量: 197 发布时间: 2018-09-06</p> <table border="1"> <tr> <td rowspan="4"></td> <td>姓名:</td> <td>吴红飞</td> <td>性别:</td> <td>男</td> <td>职务:</td> <td></td> </tr> <tr> <td>职称:</td> <td>教授</td> <td>导师类别:</td> <td>硕士生导师</td> <td>办公室:</td> <td>自动化学院电气楼502</td> </tr> <tr> <td>研究领域:</td> <td colspan="5">二级学科: 电力电子与电力传动</td> </tr> <tr> <td></td> <td colspan="5">研究兴趣: 1、功率电子变换技术; 2、航空航天供电系统; 3、可再生能源供电系统;</td> </tr> <tr> <td></td> <td>电话:</td> <td>025-84890393</td> <td>Email:</td> <td colspan="3">wuhongfei@nuaa.edu.cn</td> </tr> </table> <p>个人简介</p> <p>学术经历:</p> <ol style="list-style-type: none"> 2013年3月于南京航空航天大学电力电子与电力传动专业获工学博士学位。 2012.6—2012.7 在丹麦奥尔堡大学能源技术系, 访学; 2015.6—2016.12 在清华大学电力系统国家重点实验室, 访问学者(在职); 2017.11—2018.11 美国弗吉尼亚理工电力电子系统中心(CPES)国家公派访问学者; 2018年破格晋升为教授 <p>学术兼职:</p> <ol style="list-style-type: none"> SCI期刊Journal of Power Electronics 副主编 (Associate Editor) EI期刊 CPSS Transactions on Power Electronics and Applications副主编 (Associate Editor) IEEE Senior Member (高级会员) IEEE Trans. on Power Electronics、IEEE Trans. on Industrial Electronics、IET Power Electronics等国际权威SCI期刊, 《国电机工程学报》、《电力系统自动化》、《电工技术学报》等国内重要核心期刊, 以及IEEE ECCE、APEC等重要国际会议审稿人; IEEE IPEMC-ECCE Asia 2016 分会场主席; 国家自然科学基金通讯评审专家; <p>—</p> <p>欢迎有志于先进电力变换技术的同学加入研究团队!</p> <p>学术成果</p> <p>获得荣誉:</p> <ol style="list-style-type: none"> 入选南京航空航天大学第一批“长空学者”; 教育部霍英东教育基金会青年教师基金获得者; 江苏省“六人人才高峰”高层次人才; 江苏省“青蓝工程”优秀青年骨干教师; 教育部自然科学二等奖(排名第一); 国防技术发明三等奖(排名第一); 通过国防科技成果鉴定1项(第一完成人); 南京航空航天大学科学技术奖一等奖1项(排名第一); 南京航空航天大学“青年学者创新奖”获得者; 南京航空航天大学“杰出人才”培育基金获得者; 江苏省优秀博士学位论文获得者; 南京市第十一届自然科学优秀学术论文二等奖; 南京市第十一届自然科学优秀学术论文优秀奖; Outstanding Reviewer for IEEE Transactions on Power Electronics (2013); Presentation Award of IEEE Energy Conversion Congress&Exposition 2011, USA; <p>—</p> <p>学术论文:</p>		姓名:	吴红飞	性别:	男	职务:		职称:	教授	导师类别:	硕士生导师	办公室:	自动化学院电气楼502	研究领域:	二级学科: 电力电子与电力传动						研究兴趣: 1、功率电子变换技术; 2、航空航天供电系统; 3、可再生能源供电系统;						电话:	025-84890393	Email:	wuhongfei@nuaa.edu.cn		
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1) 在《IEEE Transactions on Power Electronics》、《IEEE Transactions on Industrial Electronics》等国际顶级SCI期刊上发表EI论文50余篇, 其中第一作者SCI论文34篇, SCI论文总影响因子大于270, 单篇最高引用100余次, 总引用1600余次, H-index为19、i10-index为39, 多篇论文入选ESI高被引论文;

2) 在《中国电机工程学报》、《电工技术学报》等国内重要核心期刊上发表EI论文近20篇;

3) 在IEEE APPEC、IEEE ECCE等顶级国际会议上发表EI收录论文30余篇。

*****部分已发表(录用)SCI论文*****

[1] Hongfei Wu, Kai Sun, Lili Zhu, Yan Xing. An Interleaved Half-Bridge Three-Port Converter with Enhanced Power Trans Capability Using Three-Leg Rectifier for Renewable Energy Applications. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2015, Accepted.

[2] Hongfei Wu, Junjun Zhang, Xiaoqing Qin, Tiantian Mu, Yan Xing. Secondary-Side-Regulated Soft-Switching Full-Bridge Three-Port Converter Based on Bridgeless Boost Rectifier and Bidirectional Converter For Multiple Energy Interface. IEEE Transactions on Power Electronics, 2015, Accepted.

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[4] Hongfei Wu, Liqun Chen, Yan Xing, Xi Xiao, Peng Xu. A Novel Two-Transformer-Based Full-Bridge Soft-Switching DC-DC Converter with Improved Characteristics. IET Power Electronics, 2015, Accepted.

[5] Hongfei Wu, Yangjun Lu, Kai Sun, Yan Xing. Phase-Shift Controlled Isolated Buck-Boost Converter with Active-Clamped Three-Level Rectifier (AC-TLR) Featuring Soft-Switching within Wide Operation Range. IEEE Trans. Power Electronics, 2015, Accepted.

[6] Hongfei Wu, Tian Xia, Xiaohai Zhan, Peng Xu, Yan Xing. Resonant Converter With Resonant-Voltage-Multiplier Rectifier and Constant Frequency Phase-Shift Control For Isolated Buck-Boost Power Conversion. IEEE Transactions on Industrial Electronics, 2015, Accepted.

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- [28] Xiaofeng Sun, Yanfeng Shen, Wuying Li, Hongfei Wu. PWM and PFM Hybrid Modulated Three-Port Converter for Interfac Stand-Alone PV/Battery Power System. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, accepted.
- [29] Junjun Zhang, Hongfei Wu, Yan Xing, Haibing Hu, Feng Cao. Power Management of Modular Three-port Converter-Based Spacecraft Power System. *IEEE Transactions on Aerospace and Electronic Systems*, Accepted.
- [30] Junjun Zhang, Hongfei Wu, Yan Xing, Xiaoqing Qin. PWM Plus Secondary-Side Phase-Shift Controlled Soft-Switching Full-Bridge Three-Port Converter for Renewable Power Systems. *IEEE Trans. on Ind. Electron.*, 2015, Accepted.

发明专利:

已获授权中国发明专利30余项;

在申请/公开中国发明专利20余项;

承担项目

主要承担的基金项目:

- 【1】电压自适应宽增益范围AC/DC变换方法与关键技术研究, 国家自然科学基金面上项目(51677085)
- 【2】电压自适应宽直流电压范围AC/DC变换技术研究, 台达电力电子科教发展基金
- 【3】面向中压直流配电网的大容量新能源发电接入系统组成机理和运行控制研究, 国家自然科学基金面上项目(51577102)
- 【4】宽增益范围有源整流式隔离升降压变换方法及关键技术, 国家自然科学基金青年基金(51407092)
- 【5】三端口直流变换器拓扑理论及应用关键技术研究, 国家自然科学基金(51377083)
- 【6】白磁复位正激变换器拓扑拓展的理论与方法研究, 国家自然科学基金(51077071)
- 【7】宽增益范围隔离式高效率升降压变换器拓扑理论及应用, 江苏省自然科学基金
- 【8】有源整流式宽增益范围高效隔离变换器研究, 台达电力电子科教发展基金
- 【9】高效电热发电-变换关键技术研究, 江苏省新能源发电与电能变换重点实验室开放基金
- 【10】新型高效片状兆赫级开关电源技术研究, 中国空间技术研究院CAST基金项目
- 【11】高效率宽增益低应力霍尔电推进电源关键技术研究, 航天SAST基金项目
- 【12】储能双向变流器研究, 电力系统国家重点实验室基金(清华大学)
- 【13】高效率高可靠性多电平双Buck航空中频逆变器关键技术研究, 多电机电气系统重点实验室基金
- 【14】高效定频谐振变换技术, 光电电力电子科研基金
- 【15】源载集成式航天多端口功率变换系统, 航天SAST基金重点项目

承担横向研究课题多项;