



## 张建忠

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### 张建忠

**职称:** 研究员、博士生导师

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### 个人简介:

2008年获东南大学工学博士学位。曾长期从事高低压开关设备的设计和开发工作,现主要从事新能源发电、电力传动和高电压等方面的科学研究。主持和为主参与国家973计划、863计划、国家自然科学基金和江苏省科技支撑计划等国家和地方重点项目20多项。在国内外重要学术刊物及会议上发表论文150余篇,授权中国发明专利40多项。获2013年度教育部自然科学奖一等奖(排4)和2015年度机械工业科学技术奖一等奖(排7)。

目前他是美国电机与电子工程师学会高级会员和中国电源学会高级会员,担任十多个国际和国内期刊的审稿专家与国家自然科学基金同行评审专家。主要研究兴趣和科研项目主要集中在以下方面:

- 1、新能源发电和柔性直流接入技术
- 2、机器人伺服与牵引变流器的设计、分析和控制
- 3、特种电源功率变换技术

欢迎广大学子报考博士和硕士研究生。

### 论著:

#### 教材:

新能源发电技术,北京:机械工业出版社,2012

**专著:**

Application of fuzzy logic control for grid-connected wind energy conversion system, Fuzzy Logic, Book Chapter, ISBN 978-953-51-4149-5, 2015

**近年论文:**

- [1] Detection and Location of Open-circuit Fault for Modular Multilevel Converter, International Journal of Electrical Power and Energy Systems. 2019.
- [2] Fault Diagnosis and Monitoring of Modular Multilevel Converter with Fast Response of Voltage Sensors, IEEE Transactions on Industrial Electronics, 2019.
- [3] Active Damping of Resonances in DFIG System with Cascade Converter Under Weak Grid, International Transactions on Electrical Energy Systems, 2019.
- [4] A Brushless Doubly-fed Generator Based on Permanent Magnet Field Modulation, IEEE Transactions on Industrial Electronics, 2019.
- [5] An Improved Brushless Doubly-Fed Generator with Interior PM Rotor for Wind Power Applications, IEEE Transactions on Magnetics, 7(2): 922-936, 2019,
- [6] Model Predictive Control for a Hybrid Multilevel Converter with Different Voltage Ratios, Journal of Emerging and Selected Topics in Power Electronics, 2019: 1-14.
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- [9] SiC MOSFET短路检测与保护研究综述, 电工技术学报, 2019.
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- [11] 基于多重离群点平滑转换自回归模型的短期风电功率预测, 电力系统保护与控制, 2019, 47(1): 73-79.
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- [17] Investigation of a fault-tolerant three-level T-type inverter system, IEEE Transactions on Industry Applications, 2017, 53(5): 4613-4623.
- [18] 智能变电站保护装置自动测试系统分析与设计, 电力系统保护与控制, 2017, 45(11): 121-125.
- [19] 基于广义自回归条件异方差偏度峰度模型的风电功率预测方法.中国电机工程学报, 2017, 37 (12): 3456-3461.
- [20] Modeling and Analysis of PPF in PMSM. IET Electric Power Applications, 2017, 11(3): 434-440.
- [21] 基于线电压误差的永磁直驱风电系统变流器开路故障诊断, 中国电机工程学报, 2017, 37(10): 2933-2943.
- [22] Online diagnosis and localization of high-resistance connection in PMSM with improved fault indicator. IEEE Transactions on Power Electronics, 2017, 32(5): 3585-3594.
- [23] Fault diagnosis of high-resistance connection in nine-phase flux-switching permanent magnet machine considering neutral-point connection model. IEEE Transactions on Power Electronics, 2017, 32(8): 6444-6454.
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### 科研:

江苏电机与电力电子联盟 (<http://www.jempel.org>) 核心成员, 副主任, 主要研究项目包括国家自然科学基金项目和企业委托项目若干。

### 教学:

交流电机统一理论 (研究生)

新能源及其发电技术

电力传动技术

### 人才培养:

已毕业硕士17人、博士3人。在读博士7人, 在读硕士10人



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