

Xianpeng LI



Address:

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Current Research

I am investigating the DC current zero phenomena of circuit breakers, which is part of HVDC circuit breaker prototype manufacturing project carried out by the School of Electrical Engineering supported by the Key Program of National Natural Science Foundation of China.

My principal supervisor is Professor Jiyan Zou and I am responsible for the analysis of post-arc current and current chop phenomena by simulations and conducting experiments.

Education

2011-2015	Full-time student Qingdao University , Qingdao, China	B.Eng. in Electrical Engineering and Automation
2015-2018	Full-time student Dalian University of Technology Dalian, China	M.Eng. in Electrical Engineering

Project

2012-2013	National Undergraduate Electronic Design Contest 2013: Rotary Inverted Pendulum <ul style="list-style-type: none">● <i>Instructor Prof. Yan Yang</i>● Design motor drive circuit, write MSP430F2616 MCU control program
2015-2018	The Key Program of National Natural Science Foundation of China: Investigations on HVDC Short-circuit Breaking Related Theory Based on Intelligent Model Technology (No.51337001) <ul style="list-style-type: none">● <i>Project leader: Prof. Jiyan Zou</i>● Cooperation unit: DaLian JiaoTong University, Shenyang University of Technology(Chinses webpage)● Simulate sheath developing process based on continuous transition model by Matlab● Use resistance-transfer method to measure post-arc current● Design test circuit and carry out the experiment of current chop measurement
	Program of National Natural Science Foundation of China: Research on Breaking Strategy and Regulation Mechanism of Current Transforming in Vacuum (No.51277019) <ul style="list-style-type: none">● <i>Project leader: Prof. Enyuan Dong</i>● Assemble, maintain and test the characteristic curves of fast electromagnetic repulsive mechanism● Assemble circuit breaker, adjust over stroke and design the drive circuit of mechanism

2017 Headquarters Science and Technology Project of State Grid Corporation of China

- 2017-2018
- *Project leader: Prof. Jiyan Zou*
 - Fine simulation (simulation step 1 nanosecond), measure and analyze the current zero phenomena of vacuum circuit breakers

Publications

Accepted:

- Experiment research on Post-arc Current in DC Vacuum Circuit Breakers (first author)
- Experiment research on Current chopping on zero period of DC Vacuum Circuit Breaker breaking (first author)
- Analysis of Action Process of ZnO Arrester in HVDC Vacuum Circuit Breaker (third author)
- All above are conference papers: 4th International Conference on Electric Power Equipment–Switching Technology ([4TH ICEPE-ST](#)). Xi'an, China. Oct 22nd~25th, 2017. (Papers will be included in IEEE Xplore and EI)

Under Review:

- Post-arc Current Measurement and Characteristic Analysis of DC Vacuum Circuit Breaker (in Chinese, first author)
- This is journal paper: [High Voltage Engineering](#) (Chinese webpage, EI)

Skills and Qualifications

- Familiar with the synthetic test circuit and high voltage test transformer
- Proficient in fast electromagnetic repulsion mechanism and circuit breakers
- Software: Microsoft Office, Matlab, Auto CAD, Altium Designer
- Language:
 - IELTS 6.5 (No.17CN134437LIX001A)
 - CET-6 (No.141237051004491).
- Certificate:
 - Application of Electronic Technique Engineer (No.C1427J07S6700190)
 - Second-level Certificate for National Computer Rank Examination (C programming language, No.24363702171373)
 - Driver's License

Awards and Honors

- Qingdao University Scholarship (5 times)
- School Excellent Student in 2013
- Excellent League Member in 2012
- 8th Qingdao University Electronic Design Contest, Third prize
- National Undergraduate Electronic Design Contest 2013, Third prize in Shandong Province
- Second class of National Scholarship for Graduate students

References

- Prof. Dr. Jiyan Zou (Supervisor)
 - Email: jyzou@dlut.edu.cn
- Prof. Dr. Yongxing Wang
 - Email: yxwang@dlut.edu.cn
- Prof. Dr. Enyuan Dong
 - Email: dey@dlut.edu.cn

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