

Ziyi Bai 柏滋藝

PhD Student

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### Education

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- PhD of Electrical and Computer Engineering  
University of Macau, Macau 2020.09 – Now
- Master of Electrical engineering  
Hunan University, China 2016.09 – 2019.06
- Bachelor of Electrical engineering  
Hainan University, China 2012.09 – 2016.06

### Education

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- Research Assistant of State Key laboratory of IoT for Smart City  
University of Macau, Macau, 2019.08– 2020.08

### Research Interests

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- Power electronics (Power quality, distributed power generation system.)

### Selected Awards & Honors

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- Second Prize, National Undergraduate Electronic Design Contest
- Second Prize, China Undergraduate Mathematical Contest in Modeling
- Third Prize, The national college students' smart car competition freescale cup

### Publications

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- Xu J, Bai Z. Application of magnetic integrated LCL filter in high-frequency harmonic suppression of traction network. *EI Electric Power Automation Equipment*, vol. 39, no. 05, pp.207-212, doi:10.16081/j.issn.1006-6047.2019.05.031
- J. Xu, Z. Bai, Y. Liu and Y. Yan, "A Novel Integrated LCL filter for High-order Harmonic Suppression in Locomotives," 2018 IEEE PES Asia-Pacific Power and Energy Engineering Conference (APPEEC), Kota Kinabalu, 2018, pp. 155-160, doi: 10.1109/APPEEC.2018.8566607.
- J. Xu, X. Gu, C. Liang, Z. Bai and A. Kubis, "Harmonic suppression analysis of a harmonic filtering distribution transformer with integrated inductors based on field-circuit coupling simulation," in *IET Generation, Transmission & Distribution*, vol. 12, no. 3, pp. 615-623, 13 2 2018, doi: 10.1049/iet-gtd.2017.1153.