

Shaohua Yang 杨少华

PhD Student

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Education

- Bachelor in EE, *Hefei University of technology*
- Master in EE, *Fuzhou University*
- PhD candidate in ECE, *State Key Laboratory of Internet of Things for Smart City, University of Macau* 2021.08 – now

Publications

- S. Yang, Z. Shao, W. Zheng and F. Chen, "Mitigation of Background Harmonics Effect on MMC Controller Based on a Novel Coordinate Transformation Technique," in *IEEE Access*, vol. 7, pp. 167113-167126, 2019.
- S. Yang, W. Zheng, F. Chen, and Z. Shao, "A Novel Synchronous Reference Frame Transformation Technique for Background Harmonics Elimination and Its Application," *IEEE 3rd Conference on Energy Internet and Energy System Integration*, 2019, pp. 933-938.
- B. Liu, Z. Chen, S. Yang et al., "Research on methods of measuring extinction angle and measures to suppress repetitive commutation failures through equivalent DC input resistance" in *International Journal of Electrical Power & Energy Systems*, vol. 133, pp. 107326, 2021.

Research Interests

- Cyber Physical System
- Power Quality

Projects

- "The mechanism of uncertain harmonic interaction for the grid with significant penetration of distributed renewable generation". National Natural Science Foundation of China (51777035), 2018-2021.
- "Study on operational risk assessment of MMC based on the derivation of state space reliability ". Natural Science Foundation of Fujian Province (2017J01480), 2017-2020.
- "Power quality assessment of the non-linear industrial user" for Fujian Shen Yuan new material Co., Ltd, 2018.

Selected Awards & Honors

- Awarded the title of " Excellent Graduate" of College of Electrical Engineering and Automation, Fuzhou University

- Awarded the Second Prize in finals in the 9th 2015 International Contest of Innovation (iCAN, Beijing)

Academic Services

- Talk "Impedance modeling of modular multilevel converters by harmonic linearization" on Jun. 19, 2019. (Fuzhou)