

Publication

12 Journals + 14 Conferences

Peer-Reviewed Journal Papers (First Author)

- 1 J. Fang, H. Li, Y. Tang, and F. Blaabjerg, "Distributed power system virtual inertia implemented by grid-connected power converters," *IEEE Trans. Power Electron.*, in press.
- 2 J. Fang, X. Li, H. Li, and Y. Tang, "Stability improvement for three-phase grid-connected converters through impedance reshaping in quadrature-axis," *IEEE Trans. Power Electron.*, in press.
- 3 J. Fang, Y. Tang, H. Li, and X. Li, "A battery/ultracapacitor hybrid energy storage system for implementing the power management of virtual synchronous generators," *IEEE Trans. Power Electron.*, vol. 33, no. 4, pp. 2820–2824, Apr. 2018.
- 4 J. Fang, X. Li, X. Yang, and Y. Tang, "An integrated trap-LCL filter with reduced current harmonics for grid-connected converters under weak grid conditions," *IEEE Trans. Power Electron.*, vol. 32, no. 11, pp. 8446–8457, Nov. 2017.
- 5 J. Fang, X. Yang, L. Zhang, and Y. Tang, "An optimal digital pulse-width-modulated dither technique to enhance the resolution of high frequency power converters," *IEEE Trans. Power Electron.*, vol. 32, no. 9, pp. 7222–7232, Sep. 2017.
- 6 J. Fang, H. Li, and Y. Tang, "A magnetic integrated LLCL filter for grid-connected voltage-source converters," *IEEE Trans. Power Electron.*, vol. 32, no. 3, pp. 1725–1730, Mar. 2017.
- 7 J. Fang, G. Xiao, X. Yang, and Y. Tang, "Parameter design of a novel series-parallel-resonant LCL filter for single-phase half-bridge active power filters," *IEEE Trans. Power Electron.*, vol. 32, no. 1, pp. 200–217, Jan. 2017.

Peer-Reviewed Journal Papers (Co-Author)

- 8 H. Li, K. Wang, J. Fang, and Y. Tang, "Pulse density modulated ZVS full-bridge converters for wireless power transfer systems," *IEEE Trans. Power Electron.*, in press.
- 9 H. Li, J. Fang, S. Chen, K. Wang, and Y. Tang, "Pulse density modulation for maximum efficiency point tracking of wireless power transfer systems," *IEEE Trans. Power Electron.*, in press.
- 10 X. Li, J. Fang, P. Lin, and Y. Tang, "Active magnetic decoupling for improving the performance of integrated LCL-filters in grid-connected converters," *IEEE Trans. Ind. Electron.*, in press.
- 11 X. Li, J. Fang, Y. Tang, and X. Wu, "Robust design of LCL filters for single-current-loop controlled grid-connected power converters with unit PCC voltage feedforward," *IEEE J. Emerg. Sel. Topics Power Electron.*, in press.
- 12 X. Li, J. Fang, Y. Tang, X. Wu, and Y. Geng, "Capacitor-voltage feedforward with full delay compensation to improve weak grids adaptability of LCL-filtered grid-connected converters for distributed generation systems," *IEEE Trans. Power Electron.*, vol. 33, no. 1, pp. 749–764, Jan. 2018.

Peer-Reviewed Conference Papers (First Author)

- 1 J. Fang, X. Li, Y. Tang, and H. Li, "Design of virtual synchronous generators with enhanced frequency regulation and reduced voltage distortions", in *Proc. IEEE APEC*, accepted, San Antonio, TEXAS, USA, 4–8 Mar. 2018.
- 2 J. Fang, X. Li, Y. Tang, and H. Li, "Power management of virtual synchronous generators through using hybrid energy storage systems", in *Proc. IEEE APEC*, accepted, San Antonio, TEXAS, USA, 4–8 Mar. 2018.
- 3 J. Fang, X. Li, Y. Tang, and H. Li, "Improvement of frequency stability in power electronics-based power systems," in *Proc. ACEPT*, pp. 1–6, Singapore, 24–26 Oct. 2017. (Best Paper Award).

- 4 **J. Fang**, X. Li, and Y. Tang, "Grid-connected power converters with distributed virtual power system inertia," in *Proc. IEEE Energy ECCE*, pp. 4267–4273, Cincinnati, USA, 1–5 Oct. 2017.
- 5 **J. Fang**, X. Li, and Y. Tang, "A novel LCL-filtered single-phase half-bridge distributed static compensator with DC-link filter capacitors and reduced passive component parameters", in *Proc. IEEE APEC*, pp. 3279–3285, Tampa, Florida, USA, 26–30 Mar. 2017.
- 6 **J. Fang**, X. Li, and Y. Tang, "A review of passive power filters for voltage-source converters," in *Proc. ACEPT*, pp. 1–6, Singapore, 25–27 Oct. 2016.
- 7 **J. Fang**, L. Zhang, Y. Tang, and X. Yang, "An optimal digital pulse-width-modulated dither technique to enhance the resolution of wide bandgap device-based high frequency power converters," in *Proc. IPEMC 2016 – ECCE Asia*, pp. 589–596, Hefei, China, 22–25 May 2016.
- 8 **J. Fang**, G. Xiao, and Y. Zhang, "An LCCL filter and its application to a half-bridge APF," in *Proc. ICPE 2015 – ECCE Asia*, pp. 2566–2573, Seoul, Korea, 1–5 Jun. 2015.

Peer-Reviewed Conference Papers (Co-Author)

- 9 H. Li, **J. Fang**, and Y. Tang, "Delta-sigma modulation for maximum efficiency point tracking of wireless power transfer systems," in *Proc. IFEEC 2017 – ECCE Asia*, pp. 434–437, Kaohsiung, Taiwan, 3–7 Jun. 2017.
- 10 X. Li, **J. Fang**, Y. Tang, and X. Wu, "Robust LCL filter design for grid-side current single-loop controlled grid-connected converters under weak power grids," in *Proc. IFEEC 2017 – ECCE Asia*, pp. 477–482, Kaohsiung, Taiwan, 3–7 Jun. 2017.
- 11 Y. Qi, **J. Fang**, and Y. Tang, "Frequency-dependent droop control for distributed generation in microgrids," in *Proc. PCIM Asia 2017*, pp. 1–7, Shanghai, China, 27–29 Jun. 2017.
- 12 X. Li, **J. Fang**, P. Lin, and Y. Tang, "A common magnetic integration method for single-phase LCL filters and LLCL filters," in *Proc. IEEE ECCE*, pp. 5595–5600, Cincinnati, USA, 1–5 Oct. 2017.
- 13 X. Li, **J. Fang**, Y. Tang, Y. Geng, and X. Wu, "Improving weak grids adaptability of LCL-filtered grid-connected converters with delay-compensated capacitor-voltage feedforward control", in *Proc. IEEE APEC*, pp. 2618–2624, Tampa, Florida, USA, 26–30 Mar. 2017.
- 14 X. Zhou, C. Dong, **J. Fang**, and Y. Tang, "Enhancement of load frequency control by using a hybrid energy storage system," in *Proc. ACEPT*, pp. 1–6, Singapore, 24–26 Oct. 2017.