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## Publikationer

Liu P, Ding T, Zou Z, Yang Y. **Integrated demand response for a load serving entity in multi-energy market considering network constraints.** Applied Energy. 2019 sep;250:512 - 529. <https://doi.org/10.1016/j.apenergy.2019.05.003>

Shen Y, Wang H, Shen Z, Yang Y, Blaabjerg F. **A 1-MHz Series Resonant DC-DC Converter With a Dual-Mode Rectifier for PV Microinverters.** IEEE Transactions on Power Electronics. 2019 jul;34(7):6544-6564. <https://doi.org/10.1109/TPEL.2018.2876346>

Niazi KAK, Yang Y, Séra D. **Review of Mismatch Mitigation Techniques for Photovoltaic Modules.** IET Renewable Power Generation. 2019 jun 11. <https://doi.org/10.1049/iet-rpg.2019.0153>

Tafti HD, Sangwongwanich A, Yang Y, Pou J, Konstantinou G, Blaabjerg F. **An Adaptive Control Scheme for Flexible Power Point Tracking in Photovoltaic Systems.** IEEE Transactions on Power Electronics. 2019 jun;34(6):5451-5463. <https://doi.org/10.1109/TPEL.2018.2869172>

Niazi KAK, Yang Y, Khan HA, Séra D. **Performance Benchmark of Bypassing Techniques for Photovoltaic Modules.** 2019 IEEE Applied Power Electronics Conference and Exposition (APEC). 2019 <https://doi.org/10.1109/APEC.2019.8722259>

Ding T, Lu R, Yang Y, Blaabjerg F. **A Condition of Equivalence Between Bus Injection and Branch Flow Models in Radial Networks.** IEEE Transactions on Circuits and Systems. Part 2: Express Briefs. 2019 maj 10;PP(99):1-5. <https://doi.org/10.1109/TCSII.2019.2916208>

Zhang G, Wang H, Yang Y, Su M, Zhang C, Blaabjerg F. **Common-Mode Voltage Reduction with Improved Output Voltage for Three-to-Five-Phase Indirect Matrix Converters.** IEEE Journal of Emerging and Selected Topics in Power Electronics. 2019 maj 9;PP(99):1-11. <https://doi.org/10.1109/JESTPE.2019.2915312>

Zhang Y, Wang H, Wang Z, Yang Y, Blaabjerg F. **A Simplification Method for Power Device Thermal Modeling with Quantitative Error Analysis.** IEEE Journal of Emerging and Selected Topics in Power Electronics. 2019 maj 1;PP(99):1-10. <https://doi.org/10.1109/JESTPE.2019.2916575>

Dai Z, Zhang Z, Yang Y, Blaabjerg F, Huangfu Y, Zhang J. **A fixed-length transfer delay-based adaptive frequency locked loop for single-phase systems.** IEEE Transactions on Power Electronics. 2019 maj;34(5):4000-4004. <https://doi.org/10.1109/TPEL.2018.2871032>

Ding T, Xu Y, Yang Y, Li Z, Zhang X, Blaabjerg F. **A Tight Linear Program for Feasibility Check and Solutions to Natural Gas Flow Equations.** IEEE Transactions on Power Systems. 2019 maj;34(3):2441-2444. <https://doi.org/10.1109/TPWRS.2019.2895568>

Ding T, Yang Q, Jiang J, Yang Y, Blåbjerg F, Li Y. **Bi-level Programming Based Optimal Strategy to LSEs with Demand Response Bids**. *Electric Power Components & Systems*. 2019 maj;46(18):1926-1937. <https://doi.org/10.1080/15325008.2018.1528315>

Li B, Ding T, Huang C, Zhao J, Yang Y, Chen Y. **Detecting False Data Injection Attacks Against Power System State Estimation with Fast Go-Decomposition (GoDec) Approach**. *IEEE Transactions on Industrial Informatics*. 2019 maj;15(5):2892-2904. <https://doi.org/10.1109/TII.2018.2875529>

Tang Z, Su M, Sun Y, Cheng B, Yang Y, Blaabjerg F o.a. **Hybrid UP-PWM Scheme for HERIC Inverter to Improve Power Quality and Efficiency**. *IEEE Transactions on Power Electronics*. 2019 maj;34(5):4292-4303. <https://doi.org/10.1109/TPEL.2018.2858784>

Pillai DS, Ram JP, Rajasekar N, Mahmud A, Yang Y, Blaabjerg F. **Extended Analysis on Line-Line and Line-Ground Faults in PV Arrays and a Compatibility Study on Latest NEC Protection Standards**. *Energy Conversion and Management: X*. 2019 apr;PP(99):1-31. <https://doi.org/10.1016/j.ecmx.2019.100009>

Koutroulis E, Yang Y, Blaabjerg F. **Co-Design of the PV Array and DC/AC Inverter for Maximizing the Energy Production in Grid-Connected Applications**. *IEEE Transactions on Energy Conversion*. 2019 mar;34(1):509-519. <https://doi.org/10.1109/TEC.2018.2879219>

Al-Shetwi AQ, Sujod MZ, Blaabjerg F, Yang Y. **Fault ride-through control of grid-connected photovoltaic power plants: A review**. *Solar Energy*. 2019 mar;180:340 - 350. <https://doi.org/10.1016/j.solener.2019.01.032>

Ding T, Bo R, Yang Y, Blaabjerg F. **Impact of Negative Reactance on Definiteness of B-Matrix and Feasibility of DC Power Flow**. *IEEE Transactions on Smart Grid*. 2019 mar;10(2):1725-1734. <https://doi.org/10.1109/TSG.2017.2777009>

Zhang Y, Wang H, Wang Z, Yang Y, Blaabjerg F. **Simplified Thermal Modeling for IGBT Modules with Periodic Power Loss Profiles in Modular Multilevel Converters**. *IEEE Transactions on Industrial Electronics*. 2019 mar;66(3):2323-2332. 8331948. <https://doi.org/10.1109/TIE.2018.2823664>

Su M, Cheng B, Sun Y, Tang Z, Guo B, Yang Y o.a. **Single-sensor control of LCL-filtered grid-connected inverters**. *IEEE Access*. 2019 mar;7:38481-38494. <https://doi.org/10.1109/ACCESS.2019.2906239>

Valente M, Iannuzzo F, Yang Y, Gurpinar E. **Performance Analysis of a Single-phase GaN-based 3L-ANPC Inverter for Photovoltaic Applications**. *2018 IEEE 4th Southern Power Electronics Conference (SPEC)*. IEEE. 2019 <https://doi.org/10.1109/SPEC.2018.8635942>

Gelani HE, Dastgeer F, Siraj K, Nasir M, Niazi KAK, Yang Y. **Efficiency Comparison of AC and DC Distribution Networks for Modern Residential Localities**. *Applied Sciences*. 2019 feb;9(3). <https://doi.org/10.3390/app9030582>

Avanaki HN, Barzegarkhoo R, Zamiri E, Yang Y, Blaabjerg F. **Reduced switch-count structure for symmetric multilevel inverters with a novel switched-DC-source submodule**. *IET Power Electronics*. 2019 feb;12(2):311-321. <https://doi.org/10.1049/iet-pel.2018.5089>

Ding T, Yang Q, Liu X, Huang C, Yang Y, Wang M o.a. **Duality-Free Decomposition Based Data-Driven Stochastic Security-Constrained Unit Commitment**. *IEEE Transactions on Sustainable Energy*. 2019 jan;10(1):82-93. <https://doi.org/10.1109/TSTE.2018.2825361>

Ding T, Li C, Chen C, Chen B, Yang Y. **Risk Assessment Based Long-Term Transmission System Hardening under Prior Probabilistic Information**. *IET Generation, Transmission & Distribution*. 2019 jan;13(1):108-115.

Wang W, Gao F, Yang Y, Blaabjerg F. **An Eight-Switch Five-Level Current Source Inverter**. *IEEE Transactions on Power Electronics*. 2019;PP(99):1-14. <https://doi.org/10.1109/TPEL.2018.2884846>

- Fang J, Lin P, Li H, Yang Y, Tang Y. **An Improved Virtual Inertia Control for Three-Phase Voltage Source Converters Connected to a Weak Grid.** I E E E Transactions on Power Electronics. 2019;PP(99):1-12. <https://doi.org/10.1109/TPEL.2018.2885513>
- Lu M, Yang Y, Johnson B, Blaabjerg F. **An Interaction-admittance Model for Multiple-Inverter Grid-connected Systems.** IEEE Transactions on Power Electronics. 2019. <https://doi.org/10.1109/TPEL.2018.2881139>
- Liu Z, Zhang B, Zhou K, Yang Y, Wang J. **Virtual Variable Sampling Repetitive Control of Single-phase DC/AC PWM Converters.** I E E E Journal of Emerging and Selected Topics in Power Electronics. 2019;1-9. <https://doi.org/10.1109/JESTPE.2018.2862411>
- Khoun Jahan H, Abapour M, Zare K, Hosseini SH, Yang Y, Blaabjerg F. **A High Step-up Multilevel Inverter with Minimized Components Featuring Self-balancing and Continuous Input Current Capabilities.** I Proceedings of the IEEE 4th Southern Power Electronics Conference (SPEC 2018). Singapore: IEEE Press. 2018. s. 1-6 <https://doi.org/10.1109/SPEC.2018.8636045>
- Khoun Jahan H, Abapour M, Zare K, Hosseini SH, Yang Y, Blaabjerg F. **A Modular Multilevel Converter with Boosting, Self-Balancing, and Scaling Capabilities for High-Voltage Transformerless PV Applications.** I Proceedings of the IEEE 4th Southern Power Electronics Conference (SPEC 2018). Singapore: IEEE Press. 2018. s. 1-7 <https://doi.org/10.1109/SPEC.2018.8636032>
- Peng Q, Fang J, Yang Y, Blaabjerg F. **A Universal Model for Grid-Connected Converters Reflecting Power-Internal Voltage Characteristics.** I Proceedings of the 2018 IEEE 4th Southern Power Electronics Conference (SPEC). IEEE Press. 2018. s. 1-7 <https://doi.org/10.1109/SPEC.2018.8635858>
- Khoun Jahan H, Shotorbani AM, Abapour M, Zare K, Blaabjerg F, Yang Y. **Cascaded Half-Bridge Multilevel Inverter with Reduced Number of Power Switches.** I Proceedings of the IEEE 4th Southern Power Electronics Conference (SPEC 2018). Singapore: IEEE Press. 2018. s. 1-7 <https://doi.org/10.1109/SPEC.2018.8635834>
- Tian N, Ding T, Yang Y, Guo Q, Sun H, Blaabjerg F. **Confidentiality preservation in user-side integrated energy system management for cloud computing.** Applied Energy. 2018 dec;231:1230 - 1245. <https://doi.org/10.1016/j.apenergy.2018.09.068>
- Cai P, Wu X, Yang Y, Yao W, Liu W, Blaabjerg F. **Design of Digital Filter-based Highly Robust Active Damping for LCL-filtered Grid-tied Inverters.** I Proceedings of the IEEE 4th Southern Power Electronics Conference (SPEC 2018). Singapore: IEEE Press. 2018. s. 1-8 <https://doi.org/10.1109/SPEC.2018.8636065>
- Lam CS, Yang Y, Zhong Q, Chen Y, Lao KW. **Advanced Power Electronic Converters and Power Quality Conditioning.** Journal of Electrical and Computer Engineering. 2018 nov;2018:1-2. 9701013. <https://doi.org/10.1155/2018/9701013>
- Yuan J, Yang Y, Liu P, Shen Y, Qiu Z, Blaabjerg F. **An Embedded Enhanced-Boost Z-Source Inverter.** I Proceedings of the IEEE International Power Electronics and Application Conference and Exposition (PEAC 2018). China: IEEE. 2018. s. 1-6 <https://doi.org/10.1109/PEAC.2018.8590410>
- Wang Z, Zhou K, Li S, Yang Y. **Fractional-order time delay compensation in deadbeat control for power converters.** I Proceedings of the 2018 IEEE International Power Electronics and Application Conference and Exposition, PEAC 2018. IEEE Press. 2018. s. 1-6. 8590593 <https://doi.org/10.1109/PEAC.2018.8590593>
- Liu P, Xu J, Yang Y, Wang H, Blaabjerg F. **Impact of Space Vector Modulation Strategies on the Reliability of Impedance-Source Inverters.** I Proceedings of the IEEE International Power Electronics and Application Conference and Exposition (PEAC 2018). China: IEEE Press. 2018. s. 1-6 <https://doi.org/10.1109/PEAC.2018.8590457>

Miceli R, Schettino G, Viola F, Blaabjerg F, Yang Y. **Performance Evaluation of a Three-Phase Five-Level Quasi-Z-Source Cascaded H-Bridge for Grid-Connected Applications.** I Proceedings of the IEEE International Power Electronics and Application Conference and Exposition (PEAC 2018). China: IEEE Press. 2018. s. 1-6 <https://doi.org/10.1109/PEAC.2018.8590634>

Zhou K, Wang Z, Yang Y, Li S, Chen Q, Zhang B. **Unified Digital Periodic Controller for Power Converter Systems.** I Proceedings of the 2018 IEEE International Power Electronics and Application Conference and Exposition, PEAC 2018. IEEE Press. 2018. s. 1-6. 8590310 <https://doi.org/10.1109/PEAC.2018.8590310>

Zhang Y, Wang H, Wang Z, Yang Y, Blaabjerg F. **Impact of the Thermal-Interface-Material Thickness on IGBT Module Reliability in the Modular Multilevel Converter.** I 2018 International Power Electronics Conference, IPEC-Niigata - ECCE Asia 2018. IEEE Press. 2018. s. 2743-2749. 8507408 <https://doi.org/10.23919/IPEC.2018.8507408>

Shen Y, Wang H, Shen Z, Yang Y, Blaabjerg F. **Series Resonant DC-DC Converter With Dual-Mode Rectifier for PV Microinverters.** I Proceedings of 2018 International Power Electronics Conference (IPEC-Niigata 2018 -ECCE Asia). IEEE Press. 2018. s. 1788-1792. 8508004 <https://doi.org/10.23919/IPEC.2018.8508004>

Sangwongwanich A, Yang Y, Sera D, Soltani H, Blaabjerg F. **Analysis and Modeling of Interharmonics from Grid-Connected Photovoltaic Systems.** I E E E Transactions on Power Electronics. 2018 okt;33(10):8353-8364. <https://doi.org/10.1109/TPEL.2017.2778025>

Yuan J, Yang Y, Shen Y, Liu W, Blaabjerg F, Liu P. **An Embedded Enhanced-Boost Z-Source Inverter Topology with Fault-Tolerant Capabilities.** I Proceedings of IECON 2018 - 44th Annual Conference of the IEEE Industrial Electronics Society. IEEE. 2018. s. 3712-3717. 8591424 <https://doi.org/10.1109/IECON.2018.8591423>

Padmanaban S, Bhaskar MS, Blaabjerg F, Yang Y. **A new DC-DC multilevel breed of XY converter family for renewable energy applications: Ly multilevel structured boost converter.** I Proceedings of the IECON 2018 - 44th Annual Conference of the IEEE Industrial Electronics Society. IEEE Press. 2018. s. 6110-6115. 8592896. (I E E E Industrial Electronics Society. Annual Conference. Proceedings). <https://doi.org/10.1109/IECON.2018.8592896>

Liu P, Yang Y, Tu C, Yuan J, Blaabjerg F. **A Novel PWM Strategy for Current Ripple and Output Harmonic Minimization of Current-Fed Trans-Quasi-Z-Source Inverters.** I Proceedings of IECON 2018 - 44th Annual Conference of the IEEE Industrial Electronics Society. IEEE Press. 2018. s. 3700-3705 <https://doi.org/10.1109/IECON.2018.8591485>

Heyderi R, Peyghami S, Yang Y, Dragicevic T, Blaabjerg F. **DC Microgrids for Photovoltaic Powered Systems.** I Dragicevic T, Wheeler P, Blaabjerg F, red., DC Distribution Systems and Microgrids. 1 udg. Bind 1. Institution of Engineering and Technology. 2018. s. 389-414 [https://doi.org/10.1049/pbpo115e\\_ch16](https://doi.org/10.1049/pbpo115e_ch16)

Cai P, Wu X, Yang Y, Yao W, Blaabjerg F. **Digital Low-Pass-Filter-Based Single-Loop Damping for LCL-Filtered Grid-Tied Inverters.** I Proceedings of IECON 2018 - 44th Annual Conference of the IEEE Industrial Electronics Society. IEEE Press. 2018. s. 6122-6127 <https://doi.org/10.1109/IECON.2018.8591089>

Xue Y, Yang W, Zhang Z, Yang Y, Ma R. **Fault diagnosis and prevention of flow sensor for fuel supply system.** I Proceedings of the 44th Annual Conference of the IEEE Industrial Electronics Society (IECON 2018). IEEE Press. 2018. s. 5395-5399. 8591151. (I E E E Industrial Electronics Society. Annual Conference. Proceedings). <https://doi.org/10.1109/IECON.2018.8591151>

Liu W, Yuan J, Yang Y, Kerekes T. **Modeling and Control of Single-Phase Quasi-Z-Source Inverters.** I Proceedings of 44th Annual Conference of the IEEE Industrial Electronics Society: IECON 2018. IEEE Press. 2018. s. 3737-3742 <https://doi.org/10.1109/IECON.2018.8592814>

Miceli R, Schettino G, Viola F, Blaabjerg F, Yang Y. **Modified Modulation Techniques for Quasi-Z-Source Cascaded H-Bridge Inverters.** I Proceedings of IECON 2018 - 44th Annual Conference of the IEEE Industrial Electronics Society. IEEE Press. 2018. s. 3743-3748 <https://doi.org/10.1109/IECON.2018.8592848>

Zhang Z, Ma R, Huangfu Y, Yang Y. **Zero-voltage ride-through of flexible power control strategy in single-phase grid-connected photovoltaic inverters.** I Proceedings of the IECON 2018 - 44th Annual Conference of the IEEE Industrial Electronics Society. IEEE Press. 2018. s. 6141-6146. 8591099. (I E E E Industrial Electronics Society. Annual Conference. Proceedings). <https://doi.org/10.1109/IECON.2018.8591099>

Yao W, Yang Y, Xu Y, Blaabjerg F, Liu S, Wilson G. **Active Damping of LCL Filters with All-Pass Filters Considering Grid Impedance Variations and Parameter Drifts.** I Proceedings of the IEEE Energy Conversion Congress and Exposition (ECCE 2018). USA: IEEE Press. 2018. s. 4915 - 4921. (IEEE Energy Conversion Congress and Exposition). <https://doi.org/10.1109/ECCE.2018.8558420>

Ding T, Yang Q, Yang Y, Li C, Bie Z, Blaabjerg F. **A Data-Driven Stochastic Reactive Power Optimization Considering Uncertainties in Active Distribution Networks and Decomposition Method.** IEEE Transactions on Smart Grid. 2018 sep;9(5):4994-5004. 7869401. <https://doi.org/10.1109/TSG.2017.2677481>

Ding T, Li C, Huang C, Yang Y, Li F, Blaabjerg F. **A Hierarchical Modeling for Reactive Power Optimization With Joint Transmission and Distribution Networks by Curve Fitting.** IEEE Systems Journal. 2018 sep;12(3):2739-2748. 7811214. <https://doi.org/10.1109/JSYST.2016.2642218>

Yang Y, Zhou K, Wang H, Blaabjerg F. **Analysis and Mitigation of Dead-Time Harmonics in the Single-Phase Full-Bridge PWM Converter with Repetitive Controllers.** I E E E Transactions on Industry Applications. 2018 sep;54(5):5343-5354. 8337004. <https://doi.org/10.1109/TIA.2018.2825941>

Zhang Z, Xue Y, Ma R, Yang Y. **An easy-implemented confidence filter for signal processing in the complex electromagnetic environment.** Microelectronics Reliability. 2018 sep;88-90:225-229. <https://doi.org/10.1016/j.microrel.2018.07.105>

Chen M, Tan H, Li K, Yang Y. **Applying Diode-Capacitor Voltage Multiplier to Coupled-Inductor Boost Converter for Novel DC-DC Converter with High Voltage Gain and Low Voltage Stress.** I Proceedings of the 2018 IEEE Energy Conversion Congress and Exposition, ECCE 2018. IEEE Press. 2018. s. 2178-2185. 8557813. (IEEE Energy Conversion Congress and Exposition). <https://doi.org/10.1109/ECCE.2018.8557813>

Wang W, Gao F, Yang Y, Blaabjerg F, Zhang L. **Eight-switch Five-level Current Source Inverter.** I Proceedings of the IEEE Energy Conversion Congress and Exposition (ECCE 2018). USA: IEEE Press. 2018. s. 1376 - 1381 <https://doi.org/10.1109/ECCE.2018.8558185>

Ahsan S, Niazi KAK, Khan HA, Yang Y. **Hotspots and performance evaluation of crystalline-silicon and thin-film photovoltaic modules.** Microelectronics Reliability. 2018 sep;88-90:1014-1018. <https://doi.org/10.1016/j.microrel.2018.06.097>

Brito EMS, Cupertino AF, Reigosa PD, Yang Y, Mendes VF, Pereira HA. **Impact of meteorological variations on the lifetime of grid-connected PV inverters.** Microelectronics Reliability. 2018 sep;88-90:1019-1024. <https://doi.org/10.1016/j.microrel.2018.07.066>

Peng Q, Yang Y, Wang H, Blaabjerg F. **On Power Electronized Power Systems: Challenges and Solutions.** I Proceedings of the 2018 IEEE Industry Applications Society Annual Meeting (IAS). IEEE Press. 2018. s. 1-9 <https://doi.org/10.1109/IAS.2018.8544488>

Tang J, Yang Y, Diao L, Chen J, Chang Y, Liu Z. **Parameter Identification of Induction Motors for Railway Traction Applications.** I Proceedings of the IEEE Annual Energy Conversion Congress and Exposition (ECCE 2018). IEEE Press. 2018. s. 284-288. (IEEE Energy Conversion Congress and Exposition). <https://doi.org/10.1109/ECCE.2018.8557866>

Sangwongwanich A, Zurmühlen S, Angenendt G, Yang Y, Séra D, Sauer DU o.a. **Reliability Assessment of PV Inverters with Battery Systems Considering PV Self-Consumption and Battery Sizing.** I Proceedings of the IEEE Energy Conversion Congress and Exposition (ECCE 2018) . USA: IEEE Press. 2018. s. 7284-7291. (IEEE Energy Conversion Congress and Exposition, Bind 2018). <https://doi.org/10.1109/ECCE.2018.8557479>

Ding T, Mu C, Bie Z, Du P, Fan Z, Zou Z o.a. **能源互联网及其优化运行研究现状综述**. Zhongguo Dianji Gongcheng Xuebao/Proceedings of the Chinese Society of Electrical Engineering. 2018 aug 5;38(15):4318-4328. <https://doi.org/10.13334/j.0258-8013.pcsee.171939>

Tang J, Yang Y, Blaabjerg F, Chen J, Diao L, Liu Z. **Parameter Identification of Inverter-Fed Induction Motors: A Review**. Energies. 2018 aug;11(9):1-21. 2194. <https://doi.org/10.3390/en11092194>

Xin Z, Mattavelli P, Yao W, Yang Y, Blaabjerg F, Loh PC. **Mitigation of Grid-Current Distortion for LCL-Filtered Voltage-Source Inverter with Inverter-Current Feedback Control**. I E E E Transactions on Power Electronics. 2018 jul;33(7):6248-6261. <https://doi.org/10.1109/TPEL.2017.2740946>

Sangwongwanich A, Yang Y, Sera D, Blaabjerg F, Zhou D. **On the Impacts of PV Array Sizing on the Inverter Reliability and Lifetime**. I E E E Transactions on Industry Applications. 2018 jul;54(4):3656-3667. <https://doi.org/10.1109/TIA.2018.2825955>

Ali Z, Christofides N, Hadjidemetriou L, Kyriakides E, Yang Y, Blaabjerg F. **Three-phase phase-locked loop synchronization algorithms for grid-connected renewable energy systems: A review**. Renewable and Sustainable Energy Reviews. 2018 jul;90:434-452. <https://doi.org/10.1016/j.rser.2018.03.086>

Sangwongwanich A, Angenendt G, Zurmuhlen S, Yang Y, Sera D, Sauer DU o.a. **Enhancing PV inverter reliability with battery system control strategy**. CPSS Transactions on Power Electronics and Applications. 2018 jun;3(2):93-101. <https://doi.org/10.24295/CPSSTPEA.2018.00009>

Liu P, Yang Y, Yuan J, Blaabjerg F. **Model Predictive Control for Quasi-Z Source Inverters with Improved Thermal Performance**. I Proceedings of the 19th Workshop on Control and Modeling for Power Electronics, COMPEL 2018. IEEE Press. 2018. s. 1-6. 8460080. (IEEE Workshop on Control and Modeling for Power Electronics (COMPEL) ). <https://doi.org/10.1109/COMPEL.2018.8460080>

Yuan J, Yang Y, Liu P, Blaabjerg F. **Model Predictive Control of An Embedded Enhanced-Boost Z-Source Inverter**. I Proceedings of the 19th Workshop on Control and Modeling for Power Electronics, COMPEL 2018. IEEE Press. 2018. s. 1-6. 8459954. (IEEE Workshop on Control and Modeling for Power Electronics (COMPEL) ). <https://doi.org/10.1109/COMPEL.2018.8459954>

Sangwongwanich A, Yang Y, Sera D, Blaabjerg F. **Mission Profile-Oriented Control for Reliability and Lifetime of Photovoltaic Inverters**. I Proceeding of the 2018 International Power Electronics Conference (IPEC-Niigata 2018 - ECCE Asia). IEEE Press. 2018. s. 2512-2518. 8507577 <https://doi.org/10.23919/IPEC.2018.8507577>

Shimao T, Kato K, Ito Y, Iwabuchi A, Yang Y, Blaabjerg F. **The Lifetime Assessment of a Micro-Inverter for PV Applications**. I Proceedings of 2018 International Power Electronics Conference, IPEC-Niigata - ECCE Asia 2018. IEEE Press. 2018. s. 439-445. 8507701 <https://doi.org/10.23919/IPEC.2018.8507701>

Yin Z, Yang Y, Wang H. **Transient Voltage Stress Modeling for Submodules of Modular Multilevel Converters under Grid Voltage Sags**. I Proceedings of the 2018 International Power Electronics Conference, IPEC-Niigata - ECCE Asia 2018. IEEE Press. 2018. s. 1021-1026. 8507962 <https://doi.org/10.23919/IPEC.2018.8507962>

Yang Y, Davari P, Blaabjerg F, Zare F. **Load-Independent Harmonic Mitigation in SCR-Fed Three-Phase Multiple Adjustable Speed Drive Systems with Deliberately Dispatched Firing Angles**. IET Power Electronics. 2018 apr;11(4):727-734. <https://doi.org/10.1049/iet-pel.2016.0815>

Tafti HD, Sangwongwanich A, Yang Y, Konstantinou G, Pou J, Blaabjerg F. **A general algorithm for flexible active power control of photovoltaic systems**. I 2018 IEEE Applied Power Electronics Conference and Exposition (APEC). IEEE Press. 2018. s. 1115-1121 <https://doi.org/10.1109/APEC.2018.8341156>

Yang Y, Zhou K, Blaabjerg F. **Analysis of dead-time harmonics in single-phase transformerless full-bridge PV inverters.** I Proceedings of the 2018 IEEE Applied Power Electronics Conference and Exposition (APEC). IEEE Press. 2018. s. 1310-1315 <https://doi.org/10.1109/APEC.2018.8341186>

Li K, Shen Y, Yang Y, Qin Z, Blaabjerg F. **A transformerless single-phase symmetrical Z-source HERIC inverter with reduced leakage currents for PV systems.** I 2018 IEEE Applied Power Electronics Conference and Exposition (APEC). IEEE Press. 2018. s. 356-361 <https://doi.org/10.1109/APEC.2018.8341035>

Gurpinar E, Iannuzzo F, Yang Y, Castellazzi A, Blaabjerg F. **Design of Low-Inductance Switching Power Cell for GaN HEMT Based Inverter.** I E E E Transactions on Industry Applications. 2018 mar;54(2):1592-1601. <https://doi.org/10.1109/TIA.2017.2777417>

Wang W, Gao F, Yang Y, Blaabjerg F. **Operation and Modulation of H7 Current-Source Inverter with Hybrid SiC and Si Semiconductor Switches.** I E E E Journal of Emerging and Selected Topics in Power Electronics. 2018 mar;6(1):387-399. <https://doi.org/10.1109/JESTPE.2017.2732825>

Sangwongwanich A, Yang Y, Sera D, Blaabjerg F. **Lifetime Evaluation of Grid-Connected PV Inverters Considering Panel Degradation Rates and Installation Sites.** IEEE Transactions on Power Electronics. 2018 feb;33(2):1225-1236. <https://doi.org/10.1109/TPEL.2017.2678169>

Sangwongwanich A, Yang Y, Blaabjerg F, Wang H. **Benchmarking of Constant Power Generation Strategies for Single-Phase Grid-Connected Photovoltaic Systems.** I E E E Transactions on Industry Applications. 2018 jan;54(1):447-457. <https://doi.org/10.1109/TIA.2017.2740380>

Wang W, Gao F, Yang Y, Blaabjerg F, Li R, Bai W. **Cascaded H7 Current Source Converter Based Power Transmission Systems and Fault Analysis.** I Proceedings of 3rd IEEE Southern Power Electronics Conference, SPEC 2017. IEEE Press. 2017. s. 510-516 <https://doi.org/10.1109/SPEC.2017.8333582>

Sangwongwanich A, Yang Y, Blaabjerg F. **A Sensorless Power Reserve Control Strategy for Two-Stage Grid-Connected PV Systems.** IEEE Transactions on Power Electronics. 2017 nov;32(11):8559-8569. <https://doi.org/10.1109/TPEL.2017.2648890>

Afshari E, Moradi GR, Rahimi R, Farhangi B, Yang Y, Blaabjerg F o.a. **Control Strategy for Three-Phase Grid-Connected PV Inverters Enabling Current Limitation Under Unbalanced Faults.** I E E E Transactions on Industrial Electronics. 2017 nov;64(11):8908-8918. <https://doi.org/10.1109/TIE.2017.2733481>

Li K, Yang Y, Qin Z, Blaabjerg F. **A Family of Cost-Effective Magnetically-Coupled Impedance Source Inverters.** I Proceedings of 43rd Annual Conference of the IEEE Industrial Electronics Society, IECON 2017. IEEE Press. 2017. s. 7679-7684 <https://doi.org/10.1109/IECON.2017.8217346>

Li K, Abdelhakim A, Yang Y, Qin Z, Blaabjerg F. **Analysis of Magnetically-Coupled Impedance Source Three-Phase Four-Switch Inverters.** I Proceedings of 43rd Annual Conference of the IEEE Industrial Electronics Society, IECON 2017. IEEE Press. 2017. s. 852-857 <https://doi.org/10.1109/IECON.2017.8216147>

Zangeneh Bighash E, Sadeghzadeh SM, Ebrahimzadeh E, Yang Y, Blaabjerg F. **A Novel Model Predictive Control for Single-Phase Grid-Connected Photovoltaic Inverters.** I Proceedings of 2017 IEEE Energy Conversion Congress and Exposition (ECCE). IEEE Press. 2017. s. 461-467 <https://doi.org/10.1109/ECCE.2017.8095819>

Li K, Yin Z, Yang Y, Wang H, Blaabjerg F. **A Switched-Capacitor Based High Conversion Ratio Converter for Renewable Energy Applications: Principle and Generation.** I Proceedings of 2017 IEEE Energy Conversion Congress and Exposition (ECCE). IEEE Press. 2017. s. 3440-3446 <https://doi.org/10.1109/ECCE.2017.8095819>

Zhang G, Yang J, Yang Y, Zhou D, Blaabjerg F. **Common-Mode Voltage Reduction of Three-to-Five Phase Indirect Matrix Converters with Zero-Current Vector Modulation**. I Proceedings of 43rd Annual Conference of the IEEE Industrial Electronics Society, IECON 2017. IEEE Press. 2017. s. 7326-7331 <https://doi.org/10.1109/IECON.2017.8217283>

Zhang Y, Wang H, Wang Z, Yang Y, Blaabjerg F. **Impact of lifetime model selections on the reliability prediction of IGBT modules in modular multilevel converters**. I Proceedings of 2017 IEEE Energy Conversion Congress and Exposition (ECCE). IEEE Press. 2017. s. 4202-4207. (IEEE Energy Conversion Congress and Exposition). <https://doi.org/10.1109/ECCE.2017.8096728>

Sangwongwanich A, Yang Y, Sera D, Blaabjerg F. **Impacts of PV Array Sizing on PV Inverter Lifetime and Reliability**. I Proceedings of 2017 IEEE Energy Conversion Congress and Exposition (ECCE) . IEEE Press. 2017. s. 3830-3837 <https://doi.org/10.1109/ECCE.2017.8096675>

Yang Y, Blaabjerg F. **Power Factor Correction Capacitors for Multiple Parallel Three-Phase ASD Systems: Analysis and Resonance Damping**. I Proceedings of 2017 IEEE Energy Conversion Congress and Exposition (ECCE) . USA: IEEE Press. 2017. s. 3398-3404 <https://doi.org/10.1109/ECCE.2017.8096609>

Ding T, Li C, Yang Y, Blaabjerg F, Zhang Y, Yan H. **Second Order Cone Programming (SOCP) Relaxation Based Optimal Power Flow with Hybrid VSC-HVDC Transmission and Active Distribution Networks**. IET Generation, Transmission & Distribution. 2017 okt;11(15):3665–3674. <https://doi.org/10.1049/iet-gtd.2016.1445>

Zhang Y, Wang H, Wang Z, Yang Y, Blaabjerg F. **The Impact of Mission Profile Models on the Predicted Lifetime of IGBT Modules in the Modular Multilevel Converter**. I Proceedings of 43rd Annual Conference of the IEEE Industrial Electronics Society, IECON 2017. IEEE Press. 2017. s. 7980-7985 <https://doi.org/10.1109/IECON.2017.8217399>

Ding T, Li C, Yang Y, Bo R, Blaabjerg F. **Negative Reactance Impacts on the Eigenvalues of the Jacobian Matrix in Power Flow and Type-1 Low-Voltage Power-Flow Solutions**. IEEE Transactions on Power Systems. 2017 sep;32(5):3471 - 3481 . <https://doi.org/10.1109/TPWRS.2016.2645608>

Yang Y, Koutroulis E, Sangwongwanich A, Blaabjerg F. **Pursuing Photovoltaic Cost-Effectiveness: Absolute Active Power Control Offers Hope in Single-Phase PV Systems**. IEEE Industry Applications Magazine. 2017 sep;23(5):40-49. <https://doi.org/10.1109/MIAS.2016.2600722>

Liu H, Yang Y, Wang X, Loh PC, Blaabjerg F, Wang W o.a. **An Enhanced Dual Droop Control Scheme for Resilient Active Power Sharing among Paralleled Two-Stage Converters**. IEEE Transactions on Power Electronics. 2017 aug;32(8):6091 - 6104 . <https://doi.org/10.1109/TPEL.2016.2614324>

Sangwongwanich A, Yang Y, Blaabjerg F, Sera D. **Delta Power Control Strategy for Multistring Grid-Connected PV Inverters**. IEEE Transactions on Industry Applications. 2017 jul;53(4):3862 - 3870. <https://doi.org/10.1109/TIA.2017.2681044>

Blaabjerg F, Yang Y, Yang D, Wang X. **Distributed Power-Generation Systems and Protection**. Proceedings of the IEEE. 2017 jul;105(7):1311 - 1331. <https://doi.org/10.1109/JPROC.2017.2696878>

Sangwongwanich A, Yang Y, Blaabjerg F. **Development of Flexible Active Power Control Strategies for Grid-Connected Photovoltaic Inverters by Modifying MPPT Algorithms**. I Proceedings of the 2017 IEEE 3rd International Future Energy Electronics Conference and ECCE Asia (IFEEC 2017 - ECCE Asia). IEEE Press. 2017. s. 87-92 <https://doi.org/10.1109/IFEEC.2017.7992423>

Sangwongwanich A, Yang Y, Sera D, Blaabjerg F. **Interharmonics from Grid-Connected PV Systems: Mechanism and Mitigation**. I Proceedings of the 2017 IEEE 3rd International Future Energy Electronics Conference and ECCE Asia (IFEEC 2017 - ECCE Asia). IEEE Press. 2017. s. 722-727 <https://doi.org/10.1109/IFEEC.2017.7992128>

Zhang Z, Yang Y, Blaabjerg F, Ma R. **Performance Evaluation of Low/Zero Voltage Ride-Through Operations for Single-Stage Single-Phase Photovoltaic Inverters**. I Proceedings of the 2017 IEEE 3rd International Future Energy Electronics Conference and ECCE Asia (IFEEC 2017 - ECCE Asia). IEEE Press. 2017. s. 99-104



<https://doi.org/10.1109/IFEEC.2017.7992425>

Blaabjerg F, Yang Y. **Special issue on advancing grid-connected renewable generation systems**. Applied Sciences (Switzerland). 2017 jun;7(6):3. 577. <https://doi.org/10.3390/app7060577>

Yang Y, Xin Z, Zhou K, Blaabjerg F. **Unified Digital Periodic Signal Filters for Power Converter Systems**. I Proceedings of the 2017 IEEE 3rd International Future Energy Electronics Conference and ECCE Asia (IFEEC 2017 - ECCE Asia). IEEE Press. 2017. s. 286-291 <https://doi.org/10.1109/IFEEC.2017.7992052>

Hadjidemetriou L, Yang Y, Kyriakides E, Blaabjerg F. **A Synchronization Scheme for Single-Phase Grid-Tied Inverters under Harmonic Distortion and Grid Disturbances**. IEEE Transactions on Power Electronics. 2017 apr;32(4):2784-2793. <https://doi.org/10.1109/TPEL.2016.2581019>

Ding T, Li C, Yang Y, Jiang J, Bie Z, Blaabjerg F. **A Two-Stage Robust Optimization for Centralized-Optimal Dispatch of Photovoltaic Inverters in Active Distribution Networks**. IEEE Transactions on Sustainable Energy. 2017 apr;8(2):744-754. <https://doi.org/10.1109/TSTE.2016.2605926>

Yang Y, Davari P, Zare F, Blaabjerg F. **Enhanced Phase-Shifted Current Control for Harmonic Cancellation in Three-Phase Multiple Adjustable Speed Drive Systems**. I E E E Transactions on Power Delivery. 2017 apr;32(2):996-1004. <https://doi.org/10.1109/TPWRD.2016.2590570>

Yang Y, Zhou K, Blaabjerg F. **Frequency Adaptability of Harmonics Controllers for Grid-Interfaced Converters**. International Journal of Control. 2017 apr;90(1):3-14. <https://doi.org/10.1080/00207179.2015.1022957>

Yao W, Yang Y, Zhang X, Blaabjerg F, Loh PC. **Design and Analysis of Robust Active Damping for LCL Filters using Digital Notch Filters**. I E E E Transactions on Power Electronics. 2017 mar;32(3):2360-2375. <https://doi.org/10.1109/TPEL.2016.2565598>

Sangwongwanich A, Yang Y, Sera D, Blaabjerg F. **Lifetime Evaluation of PV Inverters considering Panel Degradation Rates and Installation Sites**. I Proceedings of the 2017 IEEE Applied Power Electronics Conference and Exposition (APEC). IEEE Press. 2017. s. 2845-2852 <https://doi.org/10.1109/APEC.2017.7931101>

Yang Y, Sangwongwanich A, Liu H, Blaabjerg F. **Low Voltage Ride-Through of Two-Stage Grid-Connected Photovoltaic Systems Through the Inherent Linear Power-Voltage Characteristic**. I Proceedings of the 2017 IEEE Applied Power Electronics Conference and Exposition (APEC). IEEE Press. 2017. s. 3582-3588. (IEEE Applied Power Electronics Conference and Exposition (APEC), Bind 2017). <https://doi.org/10.1109/APEC.2017.7931212>

Zhang Z, Yang Y, Ma R, Blaabjerg F. **Zero-voltage ride-through capability of single-phase grid-connected photovoltaic systems**. Applied Sciences. 2017 mar;7(4). 315. <https://doi.org/10.3390/app7040315>

Afshari E, Farhangi B, Yang Y, Farhangi S. **A Low-Voltage Ride-Through Control Strategy for Three-Phase Grid-Connected PV Systems**. I Proceedings of the 2017 IEEE Power and Energy Conference at Illinois (PECI) . IEEE Press. 2017 <https://doi.org/10.1109/PECI.2017.7935767>

Afshari E, Moradi GR, Yang Y, Farhangi B, Farhangi S. **A Review on Current Reference Calculation of Three-Phase Grid-Connected PV Converters under Grid Faults**. I Proceedings of the 2017 IEEE Power and Energy Conference at Illinois (PECI). IEEE Press. 2017 <https://doi.org/10.1109/PECI.2017.7935761>

Ding T, Kou Y, Yang Y, Zhang Y, Yan H, Blaabjerg F. **Evaluating Maximum Photovoltaic Integration in District Distribution Systems Considering Optimal Inverter Dispatch and Cloud Shading Conditions**. IET Renewable Power Generation. 2017 jan;11(1):165-172. <https://doi.org/10.1049/iet-rpg.2016.0401>

Zhang Z, Yang Y, Blaabjerg F, Ma R. **Challenges to Grid Synchronization of Single-Phase Grid-Connected Inverters in Zero-Voltage Ride-Through Operation**. I Proceedings of the IEEE Southern Power Electronics Conference (SPEC), 2016 . IEEE Press. 2016 <https://doi.org/10.1109/SPEC.2016.7846059>

Yang Y, Sangwongwanich A, Blaabjerg F. **Design for Reliability of Power Electronics for Grid-Connected Photovoltaic Systems**. CPSS Transaction on Power Electronics and Applications. 2016 dec;1(1):92-103.

Yang Y, Zhou K, Blaabjerg F. **Exploitation of Digital Filters to Advance the Single-Phase T/4 Delay PLL System**. I Proceedings of the IEEE Southern Power Electronics Conference (SPEC), 2016 . IEEE Press. 2016 <https://doi.org/10.1109/SPEC.2016.7846206>

Zhang G, Yang Y, Iannuzzo F, Li K, Blaabjerg F, Xu H. **Loss Distribution Analysis of Three-Level Active Neutral-Point-Clamped (3L-ANPC) Converter with Different PWM Strategies**. I Proceedings of the IEEE Southern Power Electronics Conference (SPEC), 2016. IEEE Press. 2016 <https://doi.org/10.1109/SPEC.2016.7846157>

Zhou K, Danwei W, Yang Y, Blaabjerg F. **Periodic Control of Power Electronic Converters**. Institution of Engineering and Technology, 2016. 250 s. (Energy Engineering Series). <https://doi.org/10.1049/PBPO082E>

Liu H, Loh PC, Wang X, Yang Y, Wang W, Xu D. **Droop Control with Improved Disturbance Adaption for PV System with Two Power Conversion Stages**. I E E E Transactions on Industrial Electronics. 2016 okt;63(10):6073-6085. <https://doi.org/10.1109/TIE.2016.2580525>

Yang Y, Zhou K, Blaabjerg F. **Enhancing the Frequency Adaptability of Periodic Current Controllers with a Fixed Sampling Rate for Grid-Connected Power Converters**. IEEE Transactions on Power Electronics. 2016 okt;31(10):7273 - 7285. <https://doi.org/10.1109/TPEL.2015.2507545>

Reigosa PD, Wang H, Yang Y, Blaabjerg F. **Prediction of Bond Wire Fatigue of IGBTs in a PV Inverter Under a Long-Term Operation**. I E E E Transactions on Power Electronics. 2016 okt;31(10):7171 - 7182. <https://doi.org/10.1109/TPEL.2015.2509643>

Sangwongwanich A, Yang Y, Blaabjerg F. **A Cost-Effective Power Ramp-Rate Control Strategy for Single-Phase Two-Stage Grid-Connected Photovoltaic Systems**. I Proceedings of the 8th Annual IEEE Energy Conversion Congress and Exposition (ECCE), 2016. IEEE Press. 2016 <https://doi.org/10.1109/ECCE.2016.7854671>

Davari P, Yang Y, Zare F, Blaabjerg F. **A Review of Electronic Inductor Technique for Power Factor Correction in Three-Phase Adjustable Speed Drives**. I Proceedings of IEEE Energy Conversion Congress and Exposition (ECCE), 2016. IEEE Press. 2016 <https://doi.org/10.1109/ECCE.2016.7854767>

Sangwongwanich A, Yang Y, Blaabjerg F, Sera D. **Delta Power Control Strategy for Multi-String Grid-Connected PV Inverters**. I Proceedings of the 8th Annual IEEE Energy Conversion Congress and Exposition (ECCE) 2016. IEEE Press. 2016 <https://doi.org/10.1109/ECCE.2016.7854998>

Davari P, Zare F, Yang Y, Kumar D, Blaabjerg F. **Energy Saving in Three-Phase Diode Rectifiers Using EI Technique with Adjustable Switching Frequency Scheme**. I Proceedings of 18th European Conference on Power Electronics and Applications (EPE'16 ECCE Europe), 2016. IEEE Press. 2016 <https://doi.org/10.1109/EPE.2016.7695451>

Yang Y, Davari P, Blaabjerg F, Zare F. **Power-Quality-Oriented Optimization in Multiple Three-Phase Adjustable Speed Drives**. I Proceedings of the 8th Annual IEEE Energy Conversion Congress and Exposition, ECCE 2016. IEEE Press. 2016. s. 1-8 <https://doi.org/10.1109/ECCE.2016.7855362>

Davari P, Yang Y, Zare F, Blaabjerg F. **Predictive Pulse Pattern Current Modulation Scheme for Harmonic Reduction in Three-Phase Multidrive Systems**. I E E E Transactions on Industrial Electronics. 2016 sep;63(9):5932-5942. <https://doi.org/10.1109/TIE.2016.2551202>

Gurpinar E, Yang Y, Iannuzzo F, Castellazzi A, Blaabjerg F. **Reliability-Driven Assessment of GaN HEMTs and Si IGBTs in 3L-ANPC PV Inverters**. I E E E Journal of Emerging and Selected Topics in Power Electronics. 2016 sep;4(3):956-969. <https://doi.org/10.1109/JESTPE.2016.2566259>

Gurpinar E, Castellazzi A, Iannuzzo F, Yang Y, Blaabjerg F. **Ultra-Low Inductance Design for a GaN HEMT Based 3L-ANPC Inverter**. I Proceedings of the 8th Annual IEEE Energy Conversion Congress and Exposition, ECCE 2016. IEEE Press. 2016. s. 1-8. EC-0548 <https://doi.org/10.1109/ECCE.2016.7855540>

Shen Y, Wang H, Yang Y, Reigosa PD, Blaabjerg F. **Mission Profile Based Sizing of IGBT Chip Area for PV Inverter Applications**. I Proceedings of the 7th International Symposium on Power Electronics for Distributed Generation Systems (PEDG), 2016. IEEE Press. 2016. (2016 IEEE 7th International Symposium on Power Electronics for Distributed Generation Systems (PEDG) ). <https://doi.org/10.1109/PEDG.2016.7527028>

Sangwongwanich A, Yang Y, Blaabjerg F. **Sensorless Reserved Power Control Strategy for Two-Stage Grid-Connected Photovoltaic Systems**. I Proceedings of the 7th International Symposium on Power Electronics for Distributed Generation Systems (PEDG), 2016. IEEE Press. 2016. (2016 IEEE 7th International Symposium on Power Electronics for Distributed Generation Systems (PEDG) ). <https://doi.org/10.1109/PEDG.2016.7527032>

Davari P, Yang Y, Zare F, Blaabjerg F. **Adjustable Speed Drives and Power Quality: Challenges and Cost-Effective Opportunities**. I Proceedings of the 2016 8th International Power Electronics and Motion Control Conference - ECCE Asia (IPEMC 2016-ECCE Asia). IEEE Press. 2016. s. 2594 - 2601 <https://doi.org/10.1109/IPEMC.2016.7512707>

Liu H, Yang Y, Loh PC, Blaabjerg F, Angjelichinoski M, Stefanovic C o.a. **Power Talk: A Novel Power Line Communication in DC Microgrid**. I Proceedings of the 8th International Power Electronics and Motion Control Conference (IPEMC-ECCE Asia). IEEE Press. 2016. s. 2870 - 2874 <https://doi.org/10.1109/IPEMC.2016.7512753>

Yang Y, Zhou K, Blaabjerg F. **Virtual unit delay for digital frequency adaptive T/4 delay phase-locked loop system**. I Proceedings of the 2016 8th International Power Electronics and Motion Control Conference - ECCE Asia (IPEMC 2016-ECCE Asia). IEEE Press. 2016. s. 2910 - 2916 <https://doi.org/10.1109/IPEMC.2016.7512760>

Yang Y, Davari P, Zare F, Blaabjerg F. **Deliberately dispatched SCR firing angles for harmonic mitigation in three-phase multi-drive systems without communication**. I Proceedings of The 8th International Conference on Power Electronics, Machines, and Drives (PEMD 2016). Institution of Engineering and Technology. 2016 <https://doi.org/10.1049/cp.2016.0246>

Zhou K, Yang Y, Blaabjerg F. **Frequency Adaptive Repetitive Control of Grid-Tied Three-Phase PV Inverters**. I Proceedings of the 8th IET International Conference on Power Electronics, Machines and Drives (PEMD 2016). Institution of Engineering and Technology. 2016 <https://doi.org/10.1049/cp.2016.0212>

Yang Y, Blaabjerg F, Wang H, Simoes M. **Power Control Flexibilities for Grid-Connected Multi-Functional Photovoltaic Inverters**. IET Renewable Power Generation. 2016 apr;10(4):504 – 513. <https://doi.org/10.1049/iet-rpg.2015.0133>

Yang Y, Davari P, Zare F, Blaabjerg F. **A DC-Link Modulation Scheme with Phase-Shifted Current Control for Harmonic Cancellations in Multidrive Applications**. IEEE Transactions on Power Electronics. 2016 mar;31(3):1837-1840. <https://doi.org/10.1109/TPEL.2015.2472641>

Yang Y, Davari P, Zare F, Blaabjerg F. **Addressing the Unbalance Loading Issue in Multi-Drive Systems with A DC-Link Modulation Scheme for Harmonic Reduction**. I Proceedings of the 31st Annual IEEE Applied Power Electronics Conference and Exposition (APEC). IEEE. 2016. s. 221-228 <https://doi.org/10.1109/APEC.2016.7467876>

Davari P, Yang Y, Zare F, Blaabjerg F. **A Multipulse Pattern Modulation Scheme for Harmonic Mitigation in Three-Phase Multimotor Drives**. I E E E Journal of Emerging and Selected Topics in Power Electronics. 2016 mar;4(1):174-185. <https://doi.org/10.1109/JESTPE.2015.2461018>

Liu H, Yang Y, Wang X, Loh PC, Blaabjerg F, Wang W o.a. **An Enhanced Droop Control Scheme for Resilient Active Power Sharing in Paralleled Two-Stage PV Inverter Systems**. I Proceedings of the 31st Annual IEEE Applied Power Electronics Conference and Exposition (APEC). IEEE. 2016. s. 1253-1260 <https://doi.org/10.1109/APEC.2016.7468029>

Hadjidemetriou L, Kyriakides E, Yang Y, Blaabjerg F. **A Synchronization Method for Single-Phase Grid-Tied Inverters.** IEEE Transactions on Power Electronics. 2016 mar;31(3):2139-2149. <https://doi.org/10.1109/TPEL.2015.2428734>

Hadjidemetriou L, Kyriakides E, Yang Y, Blaabjerg F. **A Synchronization Scheme for Single-Phase Grid-Tied Inverters Under Harmonic Distortion and Grid Disturbances.** I Proceedings of the 31st Annual IEEE Applied Power Electronics Conference and Exposition (APEC). IEEE. 2016. s. 3500-3507 <https://doi.org/10.1109/APEC.2016.7468371>

Sangwongwanich A, Yang Y, Blaabjerg F, Wang H. **Benchmarking of Constant Power Generation Strategies for Single-Phase Grid-Connected Photovoltaic Systems.** I Proceedings of the 31st Annual IEEE Applied Power Electronics Conference and Exposition (APEC). IEEE Press. 2016. s. 370-377 <https://doi.org/10.1109/APEC.2016.7467899>

Yang Y, Zhou K, Blaabjerg F. **Current Harmonics from Single-Phase Grid-Connected Inverters: Examination and Suppression.** I E E E Journal of Emerging and Selected Topics in Power Electronics. 2016 mar;4(1):221-233. <https://doi.org/10.1109/JESTPE.2015.2504845>

Sangwongwanich A, Yang Y, Blaabjerg F. **High-Performance Constant Power Generation in Grid-Connected PV Systems** . IEEE Transactions on Power Electronics. 2016 mar;31(3):1822-1825. <https://doi.org/10.1109/TPEL.2015.2465151>

Anurag A, Yang Y, Blaabjerg F. **Thermal Performance and Reliability Analysis of Single-Phase PV Inverters with Reactive Power Injection Outside Feed-In Operating Hours.** I E E E Journal of Emerging and Selected Topics in Power Electronics. 2015 dec;3(4):870-880. <https://doi.org/10.1109/JESTPE.2015.2428432>

Blaabjerg F, Yang Y, Ma K, Wang X. **Power Electronics – The Key Technology for Renewable Energy System Integration.** I Proceedings of the 4th International Conference on Renewable Energy Research and Applications, ICRERA 2015. IEEE Press. 2015. s. 1618 - 1626 <https://doi.org/10.1109/ICRERA.2015.7418680>

Yang Y, Sularea V-S, Ma K, Blaabjerg F. **Advanced design tools for the reliability of power electronics – case studies on a photovoltaic (PV) system.** I Proceedings of the 41th Annual Conference of IEEE Industrial Electronics Society, IECON 2015. IEEE Press. 2015. s. 002828 - 002833 <https://doi.org/10.1109/IECON.2015.7392531>

Zhou K, Yang Y, Blaabjerg F. **Frequency Adaptive Repetitive Control of Grid-Tied Single-Phase PV Inverters.** I Proceedings of the 2015 IEEE Energy Conversion Congress and Exposition (ECCE). IEEE Press. 2015. s. 1689 - 1693 <https://doi.org/10.1109/ECCE.2015.7309898>

Anurag A, Yang Y, Blaabjerg F. **Reliability Analysis of Single-Phase PV Inverters with Reactive Power Injection at Night Considering Mission Profiles.** I Proceedings of the 2015 IEEE Energy Conversion Conference and Exposition (ECCE). IEEE Press. 2015. s. 2132 - 2139 <https://doi.org/10.1109/ECCE.2015.7309961>

Blaabjerg F, Yang Y. **Converters for Distributed Power Generation Systems.** I Webster J, red., Wiley Encyclopedia of Electrical and Electronics Engineering. Wiley. 2015. s. 1-14 <https://doi.org/10.1002/047134608X.W8279>

Blaabjerg F, Yang Y, Ma K, Wang X. **Advanced grid integration of renewables enabled by power electronics technology.** I Schulz D, red., Nachhaltige Energieversorgung und Integration von Speichern: Tagungsband zur NEIS 2015. Springer. 2015. s. 3-9 <https://doi.org/10.1007/978-3-658-10958-5>

Davari P, Yang Y, Zare F, Blaabjerg F. **A Novel Harmonic Elimination Approach in Three-Phase Multi-Motor Drives.** I Proceedings of the 2015 IEEE Energy Conversion Congress and Exposition (ECCE). IEEE Press. 2015. s. 7001-7008 <https://doi.org/10.1109/ECCE.2015.7310640>

Yang Y, Zhou K, Blaabjerg F. **Enhancing the Frequency Adaptability of Periodic Current Controllers for Grid-Connected Power Converters.** I Proceedings of the 2015 IEEE Energy Conversion Congress and Exposition (ECCE). IEEE Press. 2015. s. 5998-6005 <https://doi.org/10.1109/ECCE.2015.7310501>

Zografos D, Koutroulis E, Yang Y, Blaabjerg F. **Minimization of leakage ground current in transformerless single-phase full-bridge photovoltaic inverters.** I Proceedings of the 2015 17th European Conference on Power Electronics and Applications (EPE'15 ECCE-Europe). IEEE Press. 2015. s. 1-10 <https://doi.org/10.1109/EPE.2015.7309232>

Yang Y, Koutroulis E, Sangwongwanich A, Blaabjerg F. **Minimizing the Levelized Cost of Energy in Single-Phase Photovoltaic Systems with an Absolute Active Power Control.** I Proceedings of the 2015 IEEE Energy Conversion Congress and Exposition (ECCE). IEEE Press. 2015. s. 28-34 <https://doi.org/10.1109/ECCE.2015.7309665>

Yang Y, Enjeti P, Blaabjerg F, Wang H. **Wide-Scale Adoption of Photovoltaic Energy: Grid Code Modifications Are Explored in the Distribution Grid.** IEEE Industry Applications Magazine. 2015 sep;21(5):21-31. 7137649. <https://doi.org/10.1109/MIAS.2014.2345837>

Yang Y, Zhou K, Wang H, Blaabjerg F, Wang D, Zhang B. **Frequency Adaptive Selective Harmonic Control for Grid-Connected Inverters.** IEEE Transactions on Power Electronics. 2015 jul;30(7):3912-3924. <https://doi.org/10.1109/TPEL.2014.2344049>

Anurag A, Yang Y, Blaabjerg F. **Impact of Reactive Power Injection Outside Feed-In Hours on the Reliability of Photovoltaic Inverters.** I Proceedings of the IEEE 6th International Symposium on Power Electronics for Distributed Generation Systems, PEDG 2015. IEEE Press. 2015. s. 89-96 <https://doi.org/10.1109/PEDG.2015.7223032>

Yang Y, Hadjidemetriou L, Blaabjerg F, Kyriakides E. **Benchmarking of Phase Locked Loop based Synchronization Techniques for Grid-Connected Inverter Systems.** I Proceedings of the 2015 9th International Conference on Power Electronics and ECCE Asia (ICPE-ECCE Asia). IEEE Press. 2015. s. 2517-2524. 7168077 <https://doi.org/10.1109/ICPE.2015.7168077>

Yao W, Yang Y, Zhang X, Blaabjerg F. **Digital notch filter based active damping for LCL filters.** I Proceedings of the 2015 IEEE Applied Power Electronics Conference and Exposition (APEC). IEEE Press. 2015. s. 2399-2406. (I E E E Applied Power Electronics Conference and Exposition. Conference Proceedings). <https://doi.org/10.1109/APEC.2015.7104684>

Alibeik M, dos Santos EC, Yang Y, Wang X, Blaabjerg F. **Harmonic analysis and practical implementation of a two-phase microgrid system.** I Proceedings of the 2015 IEEE Applied Power Electronics Conference and Exposition (APEC). IEEE Press. 2015. s. 1830-1837. (I E E E Applied Power Electronics Conference and Exposition. Conference Proceedings). <https://doi.org/10.1109/APEC.2015.7104595>

Yang Y, Zhou K, Wang H, Blaabjerg F. **Harmonics mitigation of dead time effects in PWM converters using a repetitive controller.** I Proceedings of the 2015 IEEE Applied Power Electronics Conference and Exposition (APEC). IEEE Press. 2015. s. 1479-1486. (I E E E Applied Power Electronics Conference and Exposition. Conference Proceedings). <https://doi.org/10.1109/APEC.2015.7104543>

Yang Y, Ma K, Wang H, Blaabjerg F. **Instantaneous thermal modeling of the DC-link capacitor in PhotoVoltaic systems.** I Proceedings of the 2015 IEEE Applied Power Electronics Conference and Exposition (APEC). IEEE Press. 2015. s. 2733-2739. (I E E E Applied Power Electronics Conference and Exposition. Conference Proceedings). <https://doi.org/10.1109/APEC.2015.7104737>

Reigosa PD, Wang H, Yang Y, Blaabjerg F. **Prediction of bond wire fatigue of IGBTs in a PV inverter under long-term operation.** I Proceedings of the 2015 IEEE Applied Power Electronics Conference and Exposition (APEC). IEEE Press. 2015. s. 3052-3059. (I E E E Applied Power Electronics Conference and Exposition. Conference Proceedings). <https://doi.org/10.1109/APEC.2015.7104787>

Zhou K, Yang Y, Blaabjerg F, Wang D. **Optimal Selective Harmonic Control for Power Harmonics Mitigation.** IEEE Transactions on Industrial Electronics. 2015 feb;62(2):1220-1230. <https://doi.org/10.1109/TIE.2014.2336629>

Yang Y, Blaabjerg F. **Overview of Single-Phase Grid-Connected Photovoltaic Systems.** Electric Power Components & Systems. 2015;43(12):1352-1363. <https://doi.org/10.1080/15325008.2015.1031296>

- Yang Y, Wang H, Blaabjerg F. **Reliability Assessment of Transformerless PV Inverters Considering Mission Profiles.** International Journal of Photoenergy. 2015;2015:1-10. 968269. <https://doi.org/10.1155/2015/968269>
- Sintamarean NC, Blaabjerg F, Wang H, Yang Y. **Real Field Mission Profile Oriented Design of a SiC-Based PV-Inverter Application.** I E E E Transactions on Industry Applications. 2014 nov 23;50(6):4082-4089. <https://doi.org/10.1109/TIA.2014.2312545>
- Pena-Alzola R, Liserre M, Blaabjerg F, Ordonez M, Yang Y. **LCL-Filter Design for Robust Active Damping in Grid-Connected Converters.** I E E E Transactions on Industrial Informatics. 2014 nov;10(4):2192-2203. <https://doi.org/10.1109/TII.2014.2361604>
- Yang Y, Blaabjerg F, Wang H, Simoes M. **Power control flexibilities for grid-connected multi-functional photovoltaic inverters.** I Proceedings of the 4th International Workshop on Integration of Solar Power into Power Systems. Energynautics GmbH. 2014. s. 233-239
- Yang Y, Wang H, Blaabjerg F. **Reactive Power Injection Strategies for Single-Phase Photovoltaic Systems Considering Grid Requirements.** IEEE Transactions on Industry Applications. 2014 nov;50(6):4065-4076. <https://doi.org/10.1109/TIA.2014.2346692>
- Yang Y, Wang H, Blaabjerg F. **Improved Reliability of Single-Phase PV Inverters by Limiting the Maximum Feed-in Power.** I Proceedings of the 2014 IEEE Energy Conversion Congress and Exposition (ECCE). IEEE Press. 2014. s. 128-135 <https://doi.org/10.1109/ECCE.2014.6953385>
- Yang Y, Ma K, Wang H, Blaabjerg F. **Mission Profile Translation to Capacitor Stresses in Grid-Connected Photovoltaic Systems.** I Proceedings of the 2014 IEEE Energy Conversion Congress and Exposition (ECCE). IEEE Press. 2014. s. 5479-5486 <https://doi.org/10.1109/ECCE.2014.6954152>
- Hadjidemetriou L, Kyriakides E, Yang Y, Blaabjerg F. **Power quality improvement of single-phase photovoltaic systems through a robust synchronization method.** I Proceedings of the 2014 IEEE Energy Conversion Congress and Exposition (ECCE). IEEE Press. 2014. s. 2625-2632 <https://doi.org/10.1109/ECCE.2014.6953753>
- Zhou K, Yang Y, Blaabjerg F, Lu W, Danwei W. **Selective harmonic control for power converters.** I Proceedings of the 2014 IEEE Energy Conversion Congress and Exposition (ECCE). IEEE Press. 2014. s. 1645-1649 <https://doi.org/10.1109/ECCE.2014.6953615>
- Ma K, Yang Y, Blaabjerg F. **Transient modelling of loss and thermal dynamics in power semiconductor devices.** I Proceedings of the 2014 IEEE Energy Conversion Congress and Exposition (ECCE). IEEE Press. 2014. s. 5495-5501 <https://doi.org/10.1109/ECCE.2014.6954154>
- Yao W, Blaabjerg F, Zhang X, Yang Y, Gao Z. **Zero sequence blocking transformers for multi-pulse rectifier in aerospace applications.** I Proceedings of the 2014 IEEE Energy Conversion Congress and Exposition (ECCE). IEEE Press. 2014. s. 999-1006 <https://doi.org/10.1109/ECCE.2014.6953508>
- Yang Y, Wang H, Blaabjerg F. **Reduced junction temperature control during low-voltage ride-through for single-phase photovoltaic inverters.** IET Power Electronics. 2014 aug;7(8):2050-2059. <https://doi.org/10.1049/iet-pel.2013.0734>
- Yang Y, Blaabjerg F, Wang H. **Low Voltage Ride-Through of Single-Phase Transformerless Photovoltaic Inverters.** IEEE Transactions on Industry Applications. 2014 maj;50(3):1942-1952. <https://doi.org/10.1109/TIA.2013.2282966>
- Yang Y, Blaabjerg F, Wang H. **Constant Power Generation of Photovoltaic Systems Considering the Distributed Grid Capacity.** I Proceedings of the 29th Annual IEEE Applied Power Electronics Conference and Exposition, APEC 2014. IEEE Press. 2014. s. 379-385. (I E E E Applied Power Electronics Conference and Exposition. Conference Proceedings). <https://doi.org/10.1109/APEC.2014.6803336>

Blaabjerg F, Ma K, Yang Y. **Power electronics - The key technology for Renewable Energy Systems**. I Proceedings of the 9th International Conference on Ecological Vehicles and Renewable Energies, EVER 2014. IEEE Press. 2014 <https://doi.org/10.1109/EVER.2014.6844159>

Yang Y, Wang H, Blaabjerg F. **Reactive Power Injection Strategies for Single-Phase Photovoltaic Systems Considering Grid Requirements**. I Proceedings of the 29th Annual IEEE Applied Power Electronics Conference and Exposition, APEC 2014. IEEE Press. 2014. s. 371-378. (I E E E Applied Power Electronics Conference and Exposition. Conference Proceedings). <https://doi.org/10.1109/APEC.2014.6803335>

Blaabjerg F, Ma K, Yang Y. **Power Electronics for Renewable Energy Systems - Status and Trends**. I Proceedings of the 2014 8th International Conference on Integrated Power Systems 2014 (CIPS). VDE Verlag GMBH. 2014. s. 402-412

Yang Y, Wang H, Blaabjerg F, Kerekes T. **A Hybrid Power Control Concept for PV Inverters with Reduced Thermal Loading**. IEEE Transactions on Power Electronics. 2014;29(12):6271-6275 . <https://doi.org/10.1109/TPEL.2014.2332754>

Yang Y, Blaabjerg F, Zou Z. **Benchmarking of Grid Fault Modes in Single-Phase Grid-Connected Photovoltaic Systems**. IEEE Transactions on Industry Applications. 2013 sep 16;49(5):2167-2176. <https://doi.org/10.1109/TIA.2013.2260512>

Zhou K, Lu W, Yang Y, Blaabjerg F. **Harmonic control: A natural way to bridge resonant control and repetitive control**. I Proceedings of the American Control Conference (ACC) 2013: ACC. IEEE Press. 2013. s. 3189-3193. (American Control Conference).

Wang H, Yang Y, Blaabjerg F. **Thermal Optimized Operation of the Single-Phase Full-Bridge PV Inverter under Low Voltage Ride-Through Mode**. I Proceedings of PCIM Europe 2013. Berlin: VDE Verlag GMBH. 2013. s. 1055-1062

Yang Y, Blaabjerg F. **Low Voltage Ride-Through Capability of a Single-Stage Single-Phase Photovoltaic System Connected to the Low-Voltage Grid**. International Journal of Photoenergy. 2013 feb 4;2013:1-9. <https://doi.org/10.1155/2013/257487>

Yang Y, Blaabjerg F. **A New Power Calculation Method for Single-Phase Grid-Connected Systems**. I Proceedings of the 2013 IEEE International Symposium on Industrial Electronics (ISIE). IEEE Press. 2013. s. 1-6. (Industrial Electronics (ISIE), IEEE International Symposium on). <https://doi.org/10.1109/ISIE.2013.6563684>

Yang Y, Zhou K, Blaabjerg F. **Harmonics Suppression for Single-Phase Grid-Connected Photovoltaic Systems in Different Operation Modes**. I Proceedings of the IEEE Applied Power Electronics Conference and Exposition, 2013. IEEE Press. 2013. s. 889-896. (I E E E Applied Power Electronics Conference and Exposition. Conference Proceedings). <https://doi.org/10.1109/APEC.2013.6520316>

Yang Y, Blaabjerg F, Wang H. **Low voltage ride-through of single-phase transformerless photovoltaic inverters**. I Proceedings of the IEEE Energy Conversion Congress and Exposition, ECCE 2013. IEEE Press. 2013. s. 4762-4769 <https://doi.org/10.1109/ECCE.2013.6647340>

Yang Y, Wang H, Blaabjerg F, Ma K. **Mission profile based multi-disciplinary analysis of power modules in single-phase transformerless photovoltaic inverters**. I Proceedings of the 15th European Conference on Power Electronics and Applications, EPE 2013: EPE 2013. IEEE Press. 2013. s. 1-10. 6631986 <https://doi.org/10.1109/EPE.2013.6631986>

Blaabjerg F, Yang Y, Ma K. **Power Electronics – Key Technology for Renewable Energy Systems – Status and Future**. I Proceedings of the 2013 3rd International Conference on Electric Power and Energy Conversion Systems (EPECS). IEEE Press. 2013. s. 1-7 <https://doi.org/10.1109/EPECS.2013.6712980>

Sintamarean NC, Blaabjerg F, Wang H, Yang Y. **Real field mission profile oriented design of a SiC-based PV-inverter application**. I Proceedings of the IEEE Energy Conversion Congress and Exposition, ECCE 2013. IEEE Press. 2013. s. 940-947 <https://doi.org/10.1109/ECCE.2013.6646804>

Wang H, Yang Y, Blaabjerg F. **Reliability-Oriented Design and Analysis of Input Capacitors in Single-Phase Transformer-less Photovoltaic Inverters**. I 2013 Twenty-Eighth Annual IEEE Applied Power Electronics Conference and Exposition (APEC 2013). IEEE Press. 2013. s. 2929-2933. (I E E E Applied Power Electronics Conference and Exposition. Conference Proceedings). <https://doi.org/10.1109/APEC.2013.6520714>

Alzola RP, Liserre M, Blaabjerg F, Yang Y. **Robust Design of LCL-Filters for Active Damping in Grid Converters**. I Proceedings of the 39th Annual Conference of the IEEE Industrial Electronics Society, IECON 2013. IEEE Press. 2013. s. 1248-1253. (I E E E Industrial Electronics Society. Annual Conference. Proceedings). <https://doi.org/10.1109/IECON.2013.6699311>

Huang M, Blaabjerg F, Yang Y, Wu W. **Step by Step Design of a High Order Power Filter for Three-Phase Three-Wire Grid-connected Inverter in Renewable Energy System**. I Proceedings of the 4th IEEE International Symposium on Power Electronics for Distributed Generation Systems, PEDG 2013. IEEE Press. 2013. s. 1-8 <https://doi.org/10.1109/PEDG.2013.6785603>

Yang Y, Enjeti P, Blaabjerg F, Wang H. **Suggested Grid Code Modifications to Ensure Wide-Scale Adoption of Photovoltaic Energy in Distributed Power Generation Systems**. I Proceedings of 48th IEEE Industry Application Society Annual Meeting, IAS 2013. IEEE Press. 2013. s. 1-8. (Industry Applications Society. I E E E - I A S Annual Meeting. Conference Record). <https://doi.org/10.1109/IAS.2013.6682485>

Yang Y, Blaabjerg F, Zou Z. **Benchmarking of Voltage Sag Generators**. I the 38th Annual Conference of the IEEE Industrial Electronics Society. Montreal: IEEE Press. 2012. s. 943-948. (I E E E Industrial Electronics Society. Annual Conference. Proceedings). <https://doi.org/10.1109/IECON.2012.6389164>

Yang Y, Blaabjerg F, Zou Z. **Benchmarking of grid fault modes in single-phase grid-connected photovoltaic systems**. I Proceeding of the IEEE Energy Conversion Congress & Exposition, ECCE 2012. Raleigh, North Carolina, USA: IEEE Press. 2012. s. 4370-4377 <https://doi.org/10.1109/ECCE.2012.6342228>

Yang Y, Blaabjerg F. **A modified P&O MPPT algorithm for single-phase PV systems based on deadbeat control**. I Proceeding of the 6th IET International Conference on Power Electronics, Machines and Drives, PEMD 2012. Bristol, UK: IEEE Press. 2012. s. 1-5 <https://doi.org/10.1049/cp.2012.0197>

Zou Z, Wang Z, Cheng M, Yang Y. **Active power filter for harmonic compensation using a digital dual-mode-structure repetitive control approach**. I Proceedings of the 3rd International Symposium on Power Electronics for Distributed Generation Systems (PEDG 2012). IEEE Press. 2012. s. 161-166 <https://doi.org/10.1109/PEDG.2012.6253995>

Yang Y, Blaabjerg F. **Synchronization in single-phase grid-connected photovoltaic systems under grid faults**. I Proceedings of the 3rd International Symposium on Power Electronics for Distributed Generation Systems, PEDG 2012. Aalborg, Denmark: IEEE Press. 2012. s. 476-482 <https://doi.org/10.1109/PEDG.2012.6254045>

Yang Y, Zhou K, Zou Z. **A modified P&O MPPT control of photovoltaic systems**. I 2011 International Conference on Electrical Machines and Systems, ICEMS 2011. 2011. 6073976 <https://doi.org/10.1109/ICEMS.2011.6073976>

Yang Y, Zhou K. **Photovoltaic cell modeling and MPPT control strategies**. Diangong Jishu Xuebao/Transactions of China Electrotechnical Society. 2011 nov 1;26(SUPPL. 1):229-234.

## Education

PhD in Electrical Engineering

2011-2014 (expected) Aalborg University, Aalborg, Denmark

Topic: grid detection and control of single-phase grid-connected PV systems under grid faults

Master-Doctoral Program in Electrical Engineering

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B.Eng in Electrical Engineering and Automation  
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## **Awards**

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**3rd International Symposium on Power Electronics for Distributed Generation Systems**

Yongheng Yang (Deltager)

25 jun. 2012 → 28 jun. 2012

**6th IET International Conference on Power Electronics, Machines and Drives**

Yongheng Yang (Deltager)

27 mar. 2012 → 29 mar. 2012

**Rectification Harmonics in Motor Drives: Modeling and Control**

Pooya Davari (Foredragsholder), Yongheng Yang (Foredragsholder), Dao Zhou (Foredragsholder)

29 okt. 2017

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15 sep. 2012 → 20 sep. 2012

**Workshop: Renewable Electrical Energy Systems**

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14 dec. 2011 → 16 dec. 2011