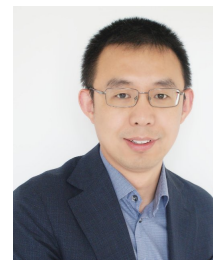


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Forskningsprofil

Xiongfei Wang received the Bachelor degree from Yanshan University, China, in 2006, the Master degree from Harbin Institute of Technology, China, in 2008, both in electrical engineering, and the PhD degree in energy technology from Aalborg University, Denmark, in 2013.

Since 2009 he has been with the Department of Energy Technology, Aalborg University, where he became an Assistant Professor in 2014, an Associate Professor in 2016, a Professor and Research Program Leader on Electronic Power Grid (eGrid) in 2018, and the Director of Aalborg University-Huawei Energy Innovation Center in 2020. Since 2020, he has also become a visiting professor at KTH Royal Institute of Technology, Stockholm, Sweden.

His research interests include analytical modeling and control of grid-interactive converters, stability and power quality of power-electronic-based power systems, harmonic analysis and mitigation, and applications of wide bandgap power semiconductor devices.

He serves as a Member-at-Large for IEEE Power Electronics Society (PELS) Administrative Committee (2020-2022), and an Associate Editor for the IEEE Transactions on Power Electronics, the IEEE Transactions on Industry Applications, and the IEEE Journal of Emerging and Selected Topics in Power Electronics (JESTPE). He has been the Guest Editor for three special issues in the IEEE Transactions on Industry Applications and JESTPE. He is the Leader of Technical Thrust "Modeling and Control of Grid-Interactive Converters" in IEEE PELS TC 1. He is the Technical Program Chair for IEEE Workshop on eT&D (now eGrid) 2017, the founding Chair for IEEE Workshop on Representations of Power Electronics for Grid Dynamic Studies in 2018, the Vice Chair for the Technical Program Committee of IEEE ECCE 2019, the Special Session Chair for IEEE ECCE 2020, and the General Co-Chair for IEEE COMPEL 2020.

In 2016, he was selected into Aalborg University Strategic Talent Management Program, which aims at developing next-generation research leaders for Aalborg University. He has received 6 Prize Paper Awards in IEEE Transactions and Conferences, the 2016 Outstanding Reviewer Award for the IEEE Transactions on Power Electronics, the 2018 IEEE PELS Richard M. Bass Outstanding Young Power Electronics Engineer Award, the 2019 IEEE PELS Sustainable Energy Systems Technical Achievement Award, the 2019 Highly Cited Researcher in the Web of Science, and the 2020 IEEE Power & Energy Society Prize Paper Award.

Priser

1. **2020 IEEE PES Prize Paper Award**
Wang, Xiongfei (Modtager) & Blaabjerg, Frede (Modtager), 2020
2. **Highly Cited Researcher in Web of Science**
Wang, Xiongfei (Modtager), 2019
3. **IEEE PELS Sustainable Energy Systems Technical Achievement Award**
Wang, Xiongfei (Modtager), 2019
4. **IEEE PELS Richard M. Bass Outstanding Young Engineer Award**
Wang, Xiongfei (Modtager), 2018
5. **Outstanding Reveiwer of IEEE Transactions on Power Electronics**
Wang, Xiongfei (Modtager), 2016
6. **AAU Talent**
Wang, Xiongfei (Modtager), 2016

Projekter

1. **Aalborg University-Huawei Energy Joint Innovation Center (AHEIC)**
Wang, X., Blaabjerg, F., Munk-Nielsen, S. & Steffensen, B.
Huawei Technologies Co., Ltd.
01/01/2020 → 31/12/2022

2. **Wind farm – grid interactions: exploration and development (WinGrid)**
Blaabjerg, F., Wang, X. & Steffensen, B.
Maria Sklodowska-Curie Innovative Training Network
01/09/2019 → 31/08/2023
3. **Medium Voltage Based on SiC (MV-BASIC)**
Munk-Nielsen, S., Uhrenfeldt, C., Beczkowski, S. M., Bech, M. M., Wang, X., Dalal, D. N., Jørgensen, J. K., Zhao, H., Mishra, P., Jørgensen, A. B. & Steffensen, B.
Department of Energy Technology
01/07/2018 → 30/06/2022
4. **Maximizing the impact of innovation energy approaches in the EU (INSULAE)**
Wang, X., Wang, X. & Steffensen, B.
EU - Horizon 2020
01/04/2019 → 31/03/2023
5. **Small-Signal Stability of MMC-HVDC Power Station**
Wang, X., Wu, H. & Steffensen, B.
NR Electric Co. Ltd.
01/06/2019 → 31/12/2020
6. **IBESS: Integrated Battery Energy Storage and STATCOM for the Optimal Operation and Control of WPP in Power System**
Chaudhary, S., Teodorescu, R., Wang, X., Yang, D., Chen, C. Y. & Kocewiak, L.
01/10/2018 → 30/09/2021
7. **Control Strategies of Distributed Generation (DG) Clusters**
Wang, X., Liao, Y., Pan, D. & Steffensen, B.
Huawei Technologies Co., Ltd.
01/09/2018 → 31/12/2019
8. **High-Frequency Small-Signal Stability of MMC-HVDC Transmission Systems with Grid Resonance**
Wang, X. & Yang, D.
TenneT
01/09/2018 → 31/12/2019
9. **Stability of Clustered PV Inverters under Different Grid Conditions**
Wang, X., Yang, D. & Blaabjerg, F.
01/04/2016 → 31/03/2017
10. **Multi-Timescale Stability of Modular Cascaded Power Electronic Systems**
Wang, X. & Wu, H.
01/05/2017 → 30/04/2020
11. **Power & Synchronization Control of PV Power Systems Connected to Weak Grids**
Wang, X., Blaabjerg, F. & Yang, D.
01/09/2017 → 31/08/2018
12. **Highly Efficient and Reliable SiC based Power Electronic Systems (HER-SiC)**
Blaabjerg, F., Wang, H., Wang, X., Chen, M. & Qin, Z.
01/12/2016 → 31/12/2020
13. **REPEPS: RELIABLE Power Electronic based Power System**
Blaabjerg, F., Iannuzzo, F., Davari, P., Wang, H., Wang, X. & Yang, Y.
01/08/2017 → 01/12/2023
14. **HARMONY: HARMONY - Harmonic identification, mitigation and control in power electronics based power systems**
Blaabjerg, F., Bak, C. L., Wang, X., Beres, R. N., Kwon, J., Gui, Y., Yoon, C. & Ebrahimzadeh, E.
European Research Council
01/02/2013 → 28/02/2018

Journal Papers

1. **Behavioral Modeling and Analysis of Ground Current in Medium-Voltage Inductors**
Zhao, H., Dalal, D., Jørgensen, J. K., Bech, M. M., Wang, X. & Munk-Nielsen, S., feb. 2021, I : IEEE Transactions on Power Electronics . 36, 2, s. 1236-1241 6 s., 9143498.
2. **Artificial Neural Network Based Identification of Multi-Operating-Point Impedance Model**
Zhang, M., Wang, X., Yang, D. & Christensen, M. G., feb. 2021, I : IEEE Transactions on Power Electronics . 36, 2, s. 1231-1235 5 s., 9151366.
3. **DQ-Frame Impedance Measurement of Three-Phase Converters Using Time-Domain MIMO Parametric Identification**
Gong, H., Wang, X. & Yang, D., feb. 2021, I : IEEE Transactions on Power Electronics . 36, 2, s. 2131-2142 12 s., 9137400.

4. **Common-mode insertion indices compensation with capacitor voltages feedforward to suppress circulating current of MMCs**
Xiong, X., Wang, X., Liu, D., Blaabjerg, F. & Zhao, C., jun. 2020, I : CPSS Transactions on Power Electronics and Applications. 5, 2, s. 103 - 113 11 s.
5. **Grid-Synchronization Stability of Converter-Based Resources - An Overview**
Wang, X., Taul, M. G., Wu, H., Liao, Y., Blaabjerg, F. & Harnefors, L., 2020, (Accepteret/In press) I : IEEE Open Journal of Industry Applications.
6. **Modeling of Converter Synchronization Stability under Grid Faults: The General Case**
Taul, M. G., Golestan, S., Wang, X., Davari, P. & Blaabjerg, F., sep. 2020, (Accepteret/In press) I : IEEE Journal of Emerging and Selected Topics in Power Electronics.
7. **Design of Multifrequency Proportional-Resonant Current Controllers for Voltage-Source Converters**
Hans, F., Schumacher, W., Chou, S-F. & Wang, X., dec. 2020, I : IEEE Transactions on Power Electronics . 35, 12, s. 13573-13589 17 s., 9089360.
8. **Reduced-Order and Aggregated Modeling of Large-Signal Synchronization Stability for Multi-Converter Systems**
Taul, M. G., Wang, X., Davari, P. & Blaabjerg, F., aug. 2020, (Accepteret/In press) I : IEEE Journal of Emerging and Selected Topics in Power Electronics. pp, 99, s. 1-17 17 s.
9. **Investigation of Switching Oscillations for Silicon Carbide MOSFETs in Three-Level Active Neutral-Point-Clamped Inverters**
Chen, M., Pan, D., Wang, H., Wang, X. & Blaabjerg, F., aug. 2020, (Accepteret/In press) I : IEEE Journal of Emerging and Selected Topics in Power Electronics. s. 1-15 15 s.
10. **Reflection Coefficient Stability Criterion for Multi-Bus Multi-VSC Power Systems**
Chou, S. F., Wang, X. & Blaabjerg, F., jun. 2020, I : IEEE Access. 8, s. 111186-111199 14 s., 9117126.
11. **Passivity-Based Analysis and Design of Linear Voltage Controllers for Voltage-Source Converters**
Liao, Y., Wang, X. & Blaabjerg, F., jun. 2020, I : IEEE Open Journal of the Industrial Electronics Society. 1, s. 1-14 14 s.
12. **Physics-Based Modeling of Parasitic Capacitance in Medium-Voltage Filter Inductors**
Zhao, H., Dalal, D. N., Jørgensen, A. B., Jørgensen, J. K., Wang, X., Beczkowski, S. M., Munk-Nielsen, S. & Uhrenfeldt, C., 17 jun. 2020, (Accepteret/In press) I : IEEE Transactions on Power Electronics. 36, 1, s. 829-843 15 s., 9119860.
13. **Multisampling Method for Single-Phase Grid-Connected Cascaded H-Bridge Inverters**
Ma, J., Wang, X., Blaabjerg, F., Song, W., Wang, S. & Liu, T., okt. 2020, I : IEEE Transactions on Industrial Electronics. 67, 10, s. 8322-8334 13 s., 8887502.
14. **Virtual-Flux-Based Passivation of Current Control for Grid-Connected VSCs**
Wu, H. & Wang, X., 2020, I : IEEE Transactions on Power Electronics. 35, 12, s. 12673-12677 5 s., 9099982.
15. **Guest Editorial: Special Section on Modeling, Topology, and Control of Grid-Forming Inverters**
Liserre, M. & Wang, X., jun. 2020, I : IEEE Journal of Emerging and Selected Topics in Power Electronics. 8, 2, s. 923-924 2 s., 9084056.
16. **Guest Editorial: Special Section on Complex Vector Theory and Its Application in Power Electronic Systems**
Harnefors, L. & Wang, X., jun. 2020, I : IEEE Journal of Emerging and Selected Topics in Power Electronics. 8, 2, s. 1821-1823 3 s., 9084055.
17. **Improved DC-Link Voltage Regulation Strategy for Grid-Connected Converters**
Gui, Y., Blaabjerg, F., Wang, X., Bendtsen, J. D., Yang, D. & Stoustrup, J., 28 apr. 2020, I : IEEE Transactions on Industrial Electronics. 11 s.
18. **Unified Modular State-Space Modeling of Grid-Connected Voltage-Source Converters**
Yang, D. & Wang, X., sep. 2020, I : IEEE Transactions on Power Electronics. 35, 9, s. 9700-9715 16 s., 8978525.
19. **Complex-Valued Multi-Frequency Admittance Model of Three-Phase VSCs in Unbalanced Grids**
Liao, Y., Wang, X., Yue, X. & Harnefors, L., jun. 2020, I : IEEE Journal of Emerging and Selected Topics in Power Electronics. 8, 2, s. 1934-1946 13 s., 8946704.
20. **Stationary-Frame Complex-Valued Frequency-Domain Modeling of Three-Phase Power Converters**
Liao, Y. & Wang, X., jun. 2020, I : IEEE Journal of Emerging and Selected Topics in Power Electronics. 8, 2, s. 1922-1933 12 s., 8938712.
21. **Asymmetric Complex-Vector Models With Application to VSC-Grid Interaction**
Harnefors, L., Wang, X., Chou, S-F., Bongiorno, M., Hinkkanen, M. & Routimo, M., jun. 2020, I : IEEE Journal of Emerging and Selected Topics in Power Electronics. 8, 2, s. 1911-1921 11 s., 8985279.
22. **Thermal Characterization of Silicon Carbide MOSFET Module Suitable for High-Temperature Computationally-Efficient Thermal-Profile Prediction**
Chen, M., Wang, H., Pan, D., Wang, X. & Blaabjerg, F., mar. 2020, I : IEEE Journal of Emerging and Selected Topics in Power Electronics. s. 1-12 12 s.

23. **Guest editorial: Modeling and Simulation Methods for Analysis and Design of Advanced Energy Conversion Systems**
Wang, X., Ai, Q., Lu, C., Palensky, P., Azad, S., Cheng, Y., Kamwa, I., Freitas, W., Wang, X., Zhao, H., Strunz, K., Monti, A., Chang, G., Luo, M., Liserre, M., Bongiorno, M., Messo, T., Ramirez Vazquez, A., Nasiri-Gheidari, Z., Fan, L. & 8 flere, Bonatto, B. D., Filizadeh, S., Chen, C., Mahseredjian, J., Wang, L., Faruque, O., Bi, T. & Chen, Y., mar. 2020, I : IEEE Transactions on Energy Conversion. 35, 1, s. 309-311 3 s., 9003364.
24. **Voltage Stability and Transient Symmetrical Fault Current Control of Voltage-Controlled MMCs**
Li, Y., Guo, J., Wu, H. & Wang, X., okt. 2020, I : IEEE Transactions on Power Delivery. 35, 5, s. 2506-2516 11 s., 8974229.
25. **A Mode-Adaptive Power-Angle Control Method for Transient Stability Enhancement of Virtual Synchronous Generators**
Wu, H. & Wang, X., jun. 2020, I : I E E E Journal of Emerging and Selected Topics in Power Electronics. 8, 2, s. 1034-1049 16 s., 9016216.
26. **Two-Port Network Modeling and Stability Analysis of Grid-Connected Current-Controlled VSCs**
Chou, S-F., Wang, X. & Blaabjerg, F., apr. 2020, I : IEEE Transactions on Power Electronics . 35, 4, s. 3519 - 3529 11 s., 8794740.
27. **Impedance-Based Stability Analysis for Interconnected Converter Systems with Open-Loop RHP Poles**
Liao, Y. & Wang, X., apr. 2020, I : IEEE Transactions on Power Electronics. 35, 4, s. 4388-4397 10 s., 8826385.
28. **A Novel DBC Layout for Current Imbalance Mitigation in SiC MOSFET Multichip Power Modules**
Li, H., Munk-Nielsen, S., Beczkowski, S. & Wang, X., dec. 2016, I : IEEE Transactions on Power Electronics . 31, 12, s. 8042 - 8045 4 s.
29. **Real-Time Calculation Method for Single-Phase Cascaded H-Bridge Inverters Based on Phase-Shifted Carrier Pulsewidth Modulation**
Ma, J., Wang, X., Blaabjerg, F., Song, W., Wang, S. & Liu, T., jan. 2020, I : IEEE Transactions on Power Electronics . 35, 1, s. 977-987 11 s., 8691775.
30. **Dynamic Impact of Zero-Sequence Circulating Current on Modular Multilevel Converters: Complex-Valued AC Impedance Modeling and Analysis**
Wu, H. & Wang, X., jun. 2020, I : I E E E Journal of Emerging and Selected Topics in Power Electronics. 8, 2, s. 1947-1963 17 s., 8891743.
31. **Transient Stability of Voltage-Source Converters With Grid-Forming Control: A Design-Oriented Study**
Pan, D., Wang, X., Liu, F. & Shi, R., jun. 2020, I : IEEE Journal of Emerging and Selected Topics in Power Electronics. 8, 2, s. 1019-1033 15 s., 8863360.
32. **Robust Fault Ride-Through of Converter-based Generation during Severe Faults with Phase Jumps**
Taul, M. G., Wang, X., Davari, P. & Blaabjerg, F., jan. 2020, I : IEEE Transactions on Industry Applications. 56, 1, s. 570 - 583 14 s., 8851254.
33. **Accuracy Analysis of the Zero-Order Hold Model for Digital Pulse Width Modulation**
Ma, J., Wang, X., Blaabjerg, F., Harnefors, L. & Song, W., dec. 2018, I : IEEE Transactions on Power Electronics. 33, 12, s. 10826 - 10834 9 s.
34. **Design-Oriented Transient Stability Analysis of PLL-Synchronized Voltage-Source Converters**
Wu, H. & Wang, X., apr. 2020, I : I E E E Transactions on Power Electronics. 35, 4, s. 3573-3589 17 s., 8820019.
35. **Current Reference Generation based on Next Generation Grid Code Requirements of Grid-Tied Converters during Asymmetrical Faults**
Taul, M. G., Wang, X., Davari, P. & Blaabjerg, F., dec. 2020, I : IEEE Journal of Emerging and Selected Topics in Power Electronics. 8, 4, s. 3784-3797 14 s., 8779660.
36. **Current Limiting Control with Enhanced Dynamics of Grid-Forming Converters during Fault Conditions**
Taul, M. G., Wang, X., Davari, P. & Blaabjerg, F., jun. 2020, I : IEEE Journal of Emerging and Selected Topics in Power Electronics. 8, 2, s. 1062-1073 12 s., 8779657.
37. **Symmetrical PLL for SISO Impedance Modeling and Enhanced Stability in Weak Grids**
Yang, D., Wang, X., Liu, F., Xin, K., Liu, Y. & Blaabjerg, F., feb. 2020, I : IEEE Transactions on Power Electronics. 35, 2, s. 1473-1483 11 s., 8737995.
38. **A Carrier Synchronization Method for Global Synchronous Pulse Width Modulation Application Using Phase-Locked-Loop**
Xu, T., Gao, F., Wang, X. & Blaabjerg, F., nov. 2019, I : IEEE Transactions on Power Electronics. 34, 11, s. 10720 - 10732 13 s., 8634934.
39. **The Impact of PLL Dynamics on the Low Inertia Power Grid: A Case Study of Bonaire Island Power System**
Sun, Y., de Jong, E. C. W., Wang, X., Yang, D., Blaabjerg, F., Cuk, V. & Cobben, J. F. G., apr. 2019, I : Energies. 12, 7, s. 1-16 16 s., 1259.
40. **Harmonic compensation capability-based coordinated control for hybrid wind farms under distorted grid voltage conditions**
Liu, R., Yao, J., Guo, L., Wang, X. & Blaabjerg, F., jul. 2019, I : IET Renewable Power Generation. 13, 9, s. 1603-1614 12 s.

41. **Passivation of Current-Controlled Grid-Connected VSCs Using Passivity Indices**
Hans, F., Schumacher, W., Chou, S. F. & Wang, X., nov. 2019, I : IEEE Transactions on Industrial Electronics. 66, 11, s. 8971 - 8980 10 s., 8556362.
42. **Stability Analysis of Grid-Connected Voltage-Source Converters Using SISO Modeling**
Zhang, H., Harnefors, L., Wang, X., Gong, H. & Hasler, J. P., aug. 2019, I : IEEE Transactions on Power Electronics. 34, 8, s. 8104-8117 14 s., 8516363.
43. **Multitask Fuzzy Secondary Controller for AC Microgrid Operating in Stand-alone and Grid-tied Mode**
Neves, R. V. A., Machado, R. Q., Oliveira, V. A., Wang, X. & Blaabjerg, F., sep. 2019, I : IEEE Transactions on Smart Grid. 10, 5, s. 5640 - 5649 10 s.
44. **Review of Small-Signal Modeling Methods Including Frequency-Coupling Dynamics of Power Converters**
Yue, X., Wang, X. & Blaabjerg, F., apr. 2019, I : IEEE Transactions on Power Electronics. 34, 4, s. 3313-3328 16 s., 8410450.
45. **Principle and Robust Impedance-Based Design of Grid-tied Inverter with LLCL-Filter under Wide Variation of Grid-Reactance**
Zhang, Z., Wu, W., Shuai, Z., Wang, X., Luo, A., Chung, H. S. H. & Blaabjerg, F., maj 2019, I : IEEE Transactions on Power Electronics. 34, 5, s. 4362-4374 13 s., 8432062.
46. **SISO Transfer Functions for Stability Analysis of Grid-Connected Voltage-Source Converters**
Zhang, H., Wang, X., Harnefors, L., Gong, H., Hasler, J. P. & Nee, H. P., maj 2019, I : IEEE Transactions on Industry Applications. 55, 3, s. 2931-2941 11 s., 8640057.
47. **Impedance-Based Stability Analysis of Voltage-Controlled MMCs Feeding Linear AC Systems**
Wu, H., Wang, X. & Kocewiak, L., dec. 2020, I : IEEE Journal of Emerging and Selected Topics in Power Electronics. 8, 4, s. 4060-4074 15 s., 8692427.
48. **Impact Analysis and Mitigation of Synchronization Dynamics for DQ Impedance Measurement**
Gong, H., Yang, D. & Wang, X., sep. 2019, I : IEEE Transactions on Power Electronics. 34, 9, s. 8797 - 8807 11 s., 8571256.
49. **A Passivity-Based Stability Analysis of the Active Damping Technique in the Offshore Wind Farm Applications**
Chen, H. C., Cheng, P. T. & Wang, X., sep. 2018, I : IEEE Transactions on Industry Applications. 54, 5, s. 5074-5082 9 s., 8403287.
50. **Control of Grid-Connected Voltage-Source Converters: The Relationship between Direct-Power Control and Vector-Current Control**
Gui, Y., Wang, X., Blåbjerg, F. & Pan, D., jun. 2019, I : IEEE Industrial Electronics Magazine. 13, 2, s. 31-40 10 s., 8744346.
51. **Voltage-Modulated Direct Power Control for a Weak Grid-Connected Voltage Source Inverters**
Gui, Y., Wang, X., Wu, H. & Blaabjerg, F., nov. 2019, I : IEEE Transactions on Power Electronics. 34, 11, s. 11383-11395 13 s., 8637819.
52. **An Overview of Assessment Methods for Synchronization Stability of Grid-Connected Converters under Severe Symmetrical Grid Faults**
Taul, M. G., Wang, X., Davari, P. & Blaabjerg, F., okt. 2019, I : IEEE Transactions on Power Electronics. 34, 10, s. 9655-9670 16 s., 8632731.
53. **Frequency-coupled admittance modelling of grid-connected voltage source converters for the stability evaluation of subsynchronous interaction**
Liu, W., Lu, Z., Wang, X. & Xie, X., feb. 2019, I : IET Renewable Power Generation. 13, 2, s. 285 - 295 11 s.
54. **Guest Editorial: Oscillations in Power Systems with High Penetration of Renewable Power Generations**
Xie, X., Wang, X., Hu, J., Xu, L., Bongiorno, M., Miao, Z., Molinas, M., Pota, H. & Rodriguez, P., 7 jan. 2019, I : IET Renewable Power Generation. 13, 1, s. 1-3 3 s.
55. **Robust Admittance Shaping Approach to Grid Current Harmonic Attenuation and Resonance Damping**
Cóbreces, S., Wang, X., Pérez, J., Griñó, R. & Blaabjerg, F., sep. 2018, I : IEEE Transactions on Industry Applications. 54, 5, s. 5039 - 5053 15 s., 8378238.
56. **Vector Current Control Derived from Direct Power Control for Grid-Connected Inverters**
Gui, Y., Wang, X. & Blaabjerg, F., sep. 2019, I : IEEE Transactions on Power Electronics. 34, 9, s. 9224 - 9235 12 s., 8544020.
57. **Impedance Measurement of Traction Network and Electric Train for Stability Analysis in High-Speed Railways**
Pan, P., Hu, H., Yang, X., Blaabjerg, F., Wang, X. & He, Z., dec. 2018, I : IEEE Transactions on Power Electronics. 33, 12, s. 10086-10100 15 s., 8359306.
58. **Design-Oriented Transient Stability Analysis of Grid-Connected Converters with Power Synchronization Control**
Wu, H. & Wang, X., aug. 2019, I : IEEE Transactions on Industrial Electronics. 66, 8, s. 6473-6482 10 s., 8495031.
59. **Impedance-Based Analysis of DC-Link Voltage Dynamics in Voltage-Source Converters**
Lu, D., Wang, X. & Blaabjerg, F., apr. 2019, I : IEEE Transactions on Power Electronics. 34, 4, s. 3973-3985 13 s., 8440759.

60. **A Practical Core Loss Model for Filter Inductors of Power Electronic Converters**
Matsumori, H., Shimizu, T., Wang, X. & Blaabjerg, F., mar. 2018, I : I E E E Journal of Emerging and Selected Topics in Power Electronics. 6, 1, s. 29-39 11 s., 8063323.
61. **Optimum Design of Power Converter Current Controllers in Large-Scale Power Electronics Based Power Systems**
Ebrahimzadeh, E., Blaabjerg, F., Wang, X. & Bak, C. L., maj 2019, I : I E E E Transactions on Industry Applications. 55, 3, s. 2792 - 2799 8 s., 8572776.
62. **Bus Participation Factor Analysis for Harmonic Instability in Power Electronics Based Power Systems**
Ebrahimzadeh, E., Blaabjerg, F., Wang, X. & Bak, C. L., dec. 2018, I : I E E E Transactions on Power Electronics. 33, 12, s. 10341 - 10351 11 s., 8310606.
63. **Harmonic Stability in Power Electronic Based Power Systems: Concept, Modeling, and Analysis**
Wang, X. & Blaabjerg, F., 1 maj 2019, I : I E E E Transactions on Smart Grid. 10, 3, s. 2858 - 2870 13 s., 8323197.
64. **Train-Network Interactions and Stability Evaluation in High-Speed Railways-Part II: Influential Factors and Verifications**
Hu, H., Tao, H., Wang, X., Blaabjerg, F., He, Z. & Gao, S., jun. 2018, I : I E E E Transactions on Power Electronics. 33, 6, s. 4643-4659 17 s.
65. **Train-Network Interactions and Stability Evaluation in High-Speed Railways-Part I: Phenomena and Modeling**
Hu, H., Tao, H., Blaabjerg, F., Wang, X., He, Z. & Gao, S., jun. 2018, I : I E E E Transactions on Power Electronics. 33, 6, s. 4627-4642 16 s.
66. **Impedance-Based Harmonic Instability Assessment in a Multiple Electric Trains and Traction Network Interaction System**
Tao, H., Hu, H., Wang, X., Blaabjerg, F. & He, Z., sep. 2018, I : I E E E Transactions on Industry Applications. 54, 5, s. 5083 - 5096 14 s., 8259319.
67. **Influence of Paralleling Dies and Paralleling Half-Bridges on Transient Current Distribution in Multichip Power Modules**
Li, H., Zhou, W., Wang, X., Munk-Nielsen, S., Li, D., Wang, Y. & Dai, X., aug. 2018, I : I E E E Transactions on Power Electronics. 33, 8, s. 6483-6487 5 s.
68. **Harmonic Analysis and Mitigation of Low-Frequency Switching Voltage Source Inverter with Auxiliary VSI**
Bai, H., Wang, X., Blaabjerg, F. & Loh, P. C., 1 sep. 2018, I : I E E E Journal of Emerging and Selected Topics in Power Electronics. 6, 3, s. 1355-1365 11 s., 8249540.
69. **Restoration of Low-Voltage Distribution Systems with Inverter-Interfaced DG Units**
Dietmannsberger, M., Wang, X., Blaabjerg, F. & Schulz, D., sep. 2018, I : I E E E Transactions on Industry Applications. 54, 5, s. 5377-5386 10 s., 8094888.
70. **Low-Complexity Model Predictive Control of Single-Phase Three-Level Rectifiers with Unbalanced Load**
Ma, J., Song, W., Wang, X., Blaabjerg, F. & Feng, X., okt. 2018, I : I E E E Transactions on Power Electronics. 33, 10, s. 8936 - 8947 12 s.
71. **On Stability of Voltage Source Inverters in Weak Grids**
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