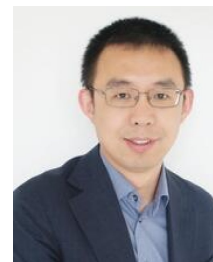


Xiongfeng Wang  
Professor with Special Responsibilities  
AAU Energy  
The Faculty of Engineering and Science  
Power Electronics System Integration and Materials  
Power Electronics System Integration and Materials  
Electronic Power Grid  
**Type of address: Visiting address.**  
Pontoppidanstræde 111  
9220  
Aalborg Øst  
Denmark  
**Email:** xwa@energy.aau.dk  
**Phone:** +4599403373



## Research profile

### Industry-Driven Research

Modeling and control of grid-interactive power electronic converters

Stability and power quality of power-electronic-based power systems

Data-driven approach to dynamics analysis and control of power electronics

### Professional Services

Executive Editor (Editor in Chief), IEEE Transactions on Power Electronics Letters

Associate Editor, IEEE Journal of Emerging and Selected Topics in Power Electronics (JESTPE)

Vice Chair, IEEE Power Electronics Society (PELS) Technical Committee (TC 8) on Electronic Power Grid Systems

Guest EiC/Co-EiC for 5 Special Issues in the IEEE Transactions on Industry Applications, IEEE Transactions on Energy

Conversion, IEEE JESTPE, and IEEE Electrification Magazine

### Awards and Honors

2023 IEEE Fellow

2022 Isao Takahashi Power Electronics Award

2021 Outstanding Paper Award, IEEE Transactions on Smart Grid

2020 Star Associate Editor for IEEE JESTPE

2020 IEEE PES Prize Paper Award, IEEE Power & Energy Society (PES)

2019 IEEE PELS Sustainable Energy Systems Technical Achievement Award

2018 Richard M. Bass Outstanding Young Power Electronics Engineer Award

2017 Second Prize Paper Award, IEEE Industry Applications Society-Industrial Power Converter Committee (IAS-IPCC)

2016 Outstanding Reviewer Award, IEEE Transactions on Power Electronics

2016 Aalborg University Talent Management Program (AAU Talent)

2014 Second Prize Paper Award, IEEE Transactions on Power Electronics

6 IEEE/IET Conference Best Paper Awards (IEEE COMPEL2021, IEEE PEDG2016, IEEE SPEC2018, IEEE PEAC2018, IEEE PES GM2017, IET RPG2017)

## Prizes

- IEEE PES Prize Paper Award 2020**  
Wang, X. (Recipient) & Blaabjerg, F. (Recipient), 2020
- Highly Cited Researcher in Web of Science**  
Wang, X. (Recipient), 2019
- IEEE PELS Sustainable Energy Systems Technical Achievement Award**  
Wang, X. (Recipient), 2019

4. **IEEE PELS Richard M. Bass Outstanding Young Engineer Award**  
Wang, X. (Recipient), 2018
5. **The Institution of Engineering and Technology 2017 the 2nd Prize**  
Yang, D. (Recipient), Wu, H. (Recipient), Wang, X. (Recipient) & Blaabjerg, F. (Recipient), Oct 2017
6. **IEEE PEDG 2016 Best Paper Award**  
Ebrahimzadeh, E. (Recipient), Blaabjerg, F. (Recipient), Wang, X. (Recipient) & Bak, C. L. (Recipient), Jun 2016
7. **Outstanding Reveiwer of IEEE Transactions on Power Electronics**  
Wang, X. (Recipient), 2016
8. **AAU Talent**  
Wang, X. (Recipient), 2016

## Projects

1. **Edge AI for High Stability-Robustness of Power Electronics in Modern Power Systems**  
Christensen, M. G. (Project Licensee) & Wang, X. (PI)  
Villum Foundation  
07/09/2021 → 28/09/2025
2. **Development of Grid Supporting Functionalities for Fast Charging Stations**  
Ibrahim, A. (PI), Wang, X. (Supervisor), Wu, H. (Supervisor) & De Falco, G. (Supervisor)  
01/11/2023 → 31/10/2026
3. **OEH: Offshore Energy Hubs**  
Blaabjerg, F. (Project Participant), Wang, X. (Project Participant), Huang, L. (Project Participant) & Frøstrup, S. (Project Coordinator)  
EUDP  
01/09/2022 → 31/08/2026
4. **Development of Methodology for Small-Signal Stability Assessment in Energy Island Type Systems**  
Bollerslev, J. (PI), Wang, X. (Supervisor), Kwon, J. (Supervisor), Wu, H. (Supervisor) & Liao, Y. (Supervisor)  
01/06/2023 → 31/05/2026
5. **Universal Fast Charger with Wide Output Voltage**  
Cinik, S. (PI), Wang, X. (Supervisor) & Zhao, F. (Supervisor)  
01/08/2023 → 31/07/2026
6. **Coordinated converter-control and grid-protection for HVDC-connected offshore wind farms**  
Li, Y. (PI), Wang, X. (Supervisor) & Wu, H. (Supervisor)  
01/01/2023 → 31/12/2025
7. **Reliable Control of Power Electronic based Power Systems**  
Steinkohl, J. (PI), Wang, X. (Supervisor), Davari, P. (Supervisor) & Blaabjerg, F. (Supervisor)  
01/04/2018 → 07/07/2021
8. **Synchronization Stability of Grid-Connected Converters under Grid Faults**  
Taul, M. G. (PI), Blaabjerg, F. (Supervisor), Wang, X. (Supervisor) & Davari, P. (Supervisor)  
01/09/2017 → 11/08/2020
9. **Real-Time Impedance Identification and Control for Three-Phase Power Electronic Systems**  
Zhang, M. (PI), Wang, X. (Supervisor) & Christensen, M. G. (Supervisor)  
01/09/2018 → 31/08/2021
10. **Multi-Sampled Current Control of Grid-Connected Voltage Source Converters**  
He, S. (PI), Blaabjerg, F. (Supervisor), Zhou, D. (Supervisor) & Wang, X. (Supervisor)  
01/01/2019 → 30/06/2022
11. **Probabilistic Assessment and Robustness Analysis of Power Electronic Sub-System for Grid Applications**  
Gholami-Khesht, H. (PI), Blaabjerg, F. (Supervisor), Davari, P. (Supervisor) & Wang, X. (Supervisor)  
01/06/2019 → 31/05/2022
12. **STABILITY AND CONTROL OF MULTI-PARALLELED SINGLE-PHASE TRACTION CONVERTERS**  
Zhao, L. (PI), Wang, X. (Supervisor) & Jin, Z. (Supervisor)  
01/10/2020 → 31/03/2024
13. **MODELING AND CONTROL OF SCALABLE VERSATILE GRID EMULATION SYSTEM**  
Li, Z. (PI), Wang, X. (Supervisor), Munk-Nielsen, S. (Supervisor) & Zhao, F. (Supervisor)  
15/10/2020 → 14/04/2024
14. **OWF System Integration Enhancement Functions**  
Wang, X. (PI), Zhou, Z. (Project Participant), Zhao, F. (Project Participant) & Steffensen, B. (Project Coordinator)  
SHELL GLOBAL SOLUTIONS INTERNATIONAL B.V.  
06/10/2021 → 31/03/2022

15. **AI-Stability: Automated Impedance Measurement Toolbox for Power System Stability Analysis**  
Wang, X. (PI), Wu, H. (Col), Gong, H. (Project Participant), Zhou, Z. (Project Participant) & Steffensen, B. (Project Coordinator)  
Innovation Fund Denmark  
01/07/2021 → 30/06/2022
16. **FRESLING: FREquency Security of Low-INertia electrical Grids**  
Fan, B. (PI), Wang, X. (Col) & Steffensen, B. (Project Coordinator)  
European Commission  
01/07/2021 → 30/06/2023
17. **Frequency Security of Low-Inertia Power Grids**  
Wang, X. (PI) & Steffensen, B. (Project Coordinator)  
Independent Research Fund Denmark  
01/07/2021 → 30/06/2024
18. **Stability Analysis of Wind Turbines under Small and Large Disturbances**  
Dimitropoulos, D. (PI), Blaabjerg, F. (Supervisor) & Wang, X. (Supervisor)  
01/10/2020 → 30/09/2023
19. **Dynamic Model Reduction of Offshore Wind Power Plants**  
Liu, S. (PI), Wang, X. (Supervisor), van der Burgt, J. (Supervisor) & Wu, H. (Supervisor)  
01/06/2021 → 31/05/2024
20. **Grid-Forming Power Electronic Systems**  
Wang, X. (PI) & Gong, H. (Col)  
15/08/2021 → 14/08/2023
21. **Coordinated Control and Protection of Wind Turbine Converters and Grid Interface**  
Gao, G. (PI), Wang, X. (Supervisor), Blaabjerg, F. (Supervisor) & Wu, H. (Supervisor)  
01/05/2021 → 30/04/2024
22. **Small-Signal Stability of Power Electronics Dominant Grid**  
Wang, X. (PI), Zhou, Z. (Project Participant) & Steffensen, B. (Project Coordinator)  
01/10/2020 → 30/09/2021
23. **Advanced Control of Power Supply Systems for Data Centers**  
Wang, X. (PI), Zhu, T. (Project Participant), Gao, G. (Project Participant) & Steffensen, B. (Project Coordinator)  
01/09/2020 → 31/08/2022
24. **Small-Signal Stability of Multi-Terminal MMC-HVDC Systems**  
Wang, X. (PI), Wu, H. (Col) & Steffensen, B. (Project Coordinator)  
01/10/2020 → 31/03/2021
25. **Metro-Power : Multi-timescale Modeling of Metro Power Supply System**  
Wang, X. (PI), Jin, Z. (Col), Wang, D. (Project Participant) & Steffensen, B. (Project Coordinator)  
01/03/2020 → 28/02/2022
26. **MERGE: Megawatt Scalable Versatile Grid Emulation System**  
Wang, X. (PI), Bak-Jensen, B. (Col), Blaabjerg, F. (Col), Munk-Nielsen, S. (Col), Zhao, F. (Project Participant), Taul, M. G. (Project Participant), Ponnaganti, P. (Project Participant) & Steffensen, B. (Project Coordinator)  
EUDP  
01/08/2020 → 31/07/2023
27. **Aalborg University-Huawei Energy Joint Innovation Center (AHEIC)**  
Wang, X. (PI), Blaabjerg, F. (Col), Munk-Nielsen, S. (Col) & Steffensen, B. (Project Coordinator)  
01/01/2020 → 31/12/2022
28. **Wind farm – grid interactions: exploration and development (WinGrid)**  
Blaabjerg, F. (PI), Wang, X. (Col) & Steffensen, B. (Project Coordinator)  
Maria Skłodowska-Curie Innovative Training Network  
01/09/2019 → 31/08/2023
29. **Medium Voltage Based on SiC (MV-BASIC)**  
Munk-Nielsen, S. (PI), Uhrenfeldt, C. (Project Participant), Beczkowski, S. M. (Project Participant), Bech, M. M. (Project Coordinator), Wang, X. (Project Participant), Dalal, D. N. (Project Participant), Jørgensen, J. K. (Project Participant), Zhao, H. (Project Participant), Mishra, P. (Project Participant), Jørgensen, A. B. (Project Participant) & Steffensen, B. (Project Coordinator)  
Department of Energy Technology  
01/07/2018 → 30/06/2022
30. **Maximizing the impact of innovation energy approaches in the EU (INSULAE)**  
Wang, X. (PI), Wang, X. (Project Participant) & Steffensen, B. (Project Coordinator)  
Horizon Europe  
01/04/2019 → 31/03/2023

31. **Small-Signal Stability of MMC-HVDC Power Station**  
Wang, X. (PI), Wu, H. (Project Participant) & Steffensen, B. (Project Coordinator)  
01/06/2019 → 31/12/2020
32. **IBESS: Integrated Battery Energy Storage and STATCOM for the Optimal Operation and Control of WPP in Power System**  
Chaudhary, S. (Project Coordinator), Teodorescu, R. (PI), Wang, X. (Project Participant), Yang, D. (Project Participant), Chen, C. Y. (Project Manager) & Kocewiak, L. (Project Coordinator)  
01/10/2018 → 30/09/2021
33. **Control Strategies of Distributed Generation (DG) Clusters**  
Wang, X. (PI), Liao, Y. (Project Participant), Pan, D. (Project Participant) & Steffensen, B. (Project Coordinator) Huawei Technologies Co., Ltd.  
01/09/2018 → 31/12/2019
34. **High-Frequency Small-Signal Stability of MMC-HVDC Transmission Systems with Grid Resonance**  
Wang, X. (PI) & Yang, D. (Project Participant)  
Tennet TSB B.V.  
01/09/2018 → 31/12/2019
35. **Stability of Clustered PV Inverters under Different Grid Conditions**  
Wang, X. (PI), Yang, D. (Project Participant) & Blaabjerg, F. (Col)  
01/04/2016 → 31/03/2017
36. **Multi-Timescale Stability of Modular Cascaded Power Electronic Systems**  
Wang, X. (PI) & Wu, H. (Project Participant)  
01/05/2017 → 30/04/2020
37. **Power & Synchronization Control of PV Power Systems Connected to Weak Grids**  
Wang, X. (PI) & Yang, D. (Col)  
01/09/2017 → 31/08/2018
38. **Highly Efficient and Reliable SiC based Power Electronic Systems (HER-SiC)**  
Blaabjerg, F. (PI), Wang, H. (Col), Wang, X. (Col), Chen, M. (Project Participant) & Qin, Z. (Project Participant)  
01/12/2016 → 31/12/2020
39. **REPEPS: RELIABLE Power Electronic based Power System**  
Blaabjerg, F. (PI), Iannuzzo, F. (Col), Davari, P. (Col), Wang, H. (Col), Wang, X. (Col) & Yang, Y. (Col)  
01/08/2017 → 01/12/2023
40. **HARMONY: HARMONY - Harmonic identification, mitigation and control in power electronics based power systems**  
Blaabjerg, F. (PI), Bak, C. L. (Col), Wang, X. (Col), Beres, R. N. (Project Participant), Kwon, J. (Project Participant), Gui, Y. (Project Participant), Yoon, C. (Project Participant) & Ebrahimzadeh, E. (Project Participant)  
European Research Council  
01/02/2013 → 28/02/2018

## Journal Papers

1. **Uncertainty-Aware Stability Analysis of IBR-dominated Power System with Neural Networks**  
Humblot-Renaux, G., Wu, Y., Escalera Guerrero, S., Moeslund, T. B., Wang, X. & Wu, H., Apr 2025, (E-pub ahead of print) In: I E E E Transactions on Power Electronics.
2. **Editorial 2025: Four Decades of TPEL**  
Chen, Y. M., Wang, X. & Saeedifard, M., 2025, In: IEEE Transactions on Power Electronics . 40, 1, p. 4-7 4 p.
3. **Reference Frame Selection on Impedance Modeling of VSCs with Fundamental Frequency Dynamics**  
Wu, Y., Wu, H., Zhao, F., Zhou, Z. & Wang, X., 2025, In: IEEE Transactions on Power Electronics . 40, 7, p. 10059-10076 18 p.
4. **Frequency Domain Inertia Design of Grid-Forming Converters**  
Jiang, S., Zhu, Y., Xu, T., Wang, X. & Konstantinou, G., 2025, In: IEEE Transactions on Power Electronics .
5. **Functional specifications and testing requirements for grid-forming offshore wind power plants**  
Ghimire, S., Guerreiro, G. M. G., Vatta Kkuni, K., Guest, E. D., Jensen, K. H., Yang, G. & Wang, X., 2 Jan 2025, In: Wind Energy Science. 10, 1, p. 1-15 15 p.
6. **Impacts of grid-forming inverters on distance protection**  
Johansson, H., Xing, Q., Taylor, N. & Wang, X., 1 Jan 2025, In: IET Generation, Transmission and Distribution. 19, 1, e13354.
7. **An Extended Frequency-Domain Passivity Theory for MIMO Dynamics Specifications of Voltage-Source Inverters**  
Chen, F., Khong, S. Z., Harnefors, L., Wang, X., Wang, D., Sandberg, H., Zhao, L., Routimo, M., Kukkola, J., Sou, K. C. & Johansson, K. H., 2024, In: IEEE Transactions on Power Electronics . 40, 2
8. **Impedance Profile Prediction for Grid-Connected VSCs with Data-Driven Feature Extraction**  
Wu, Y., Wu, H., Cheng, L., Zhou, J., Zhou, Z., Chen, M. & Wang, X., 2025, In: IEEE Transactions on Power Electronics . 40, 2, p. 1-18 18 p., 10748372.

9. **Interaction analysis and enhanced design of grid-forming control with hybrid synchronization and virtual admittance loops**  
Gong, H. & Wang, X., Mar 2023, In: *iEnergy*. 2, 1, p. 71-84 14 p.
10. **Surge Current Distribution in Paralleled SiC MOSFETs under Third-quadrant Operation**  
Zhang, M., Li, H., Yang, Z., Zhao, S., Wang, X. & Ding, L., 2024, In: *IEEE Transactions on Power Electronics* . 40, 2, 10733741.
11. **Concept of Enabling Over-Current Capability of Silicon-Carbide-Based Power Converters with Gate Voltage Augmentation**  
Bhadoria, S., Xu, Q., Wang, X. & Nee, H. P., Sept 2024, In: *Energies*. 17, 17, 4319.
12. **Comparison of Power Swing Characteristics and Efficacy Analysis of Impedance-based Detections in Synchronous Generators and Grid-following Systems**  
Xiong, Y., Wu, H., Li, Y. & Wang, X., 2025, (E-pub ahead of print) In: *IEEE Transactions on Power Systems*.
13. **Guest Editorial Special Section on Power Electronics Technologies for Transforming Electrical Grids**  
Wang, X., Agarwal, V., Mcgrath, B. & Wu, X., 2024, In: *IEEE Transactions on Power Electronics* . 39, 10, p. 12072-12075 4 p.
14. **Limitations of Using Passivity Index to Analyze Grid-Inverter Interactions**  
Chen, F., Wang, X., Harnfors, L., Khong, S. Z., Wang, D., Zhao, L., Sou, K. C., Routimo, M., Kukkola, J., Sandberg, H. & Johansson, K. H., 2024, In: *IEEE Transactions on Power Electronics* . 39, 11, p. 14465-14477 13 p.
15. **Influence of PLL on Stability of Interconnected Grid-Forming and Grid-Following Converters**  
Wu, Y., Wu, H., Zhao, F., Li, Z. & Wang, X., 2024, In: *IEEE Transactions on Power Electronics* . 39, 10, p. 11980-11985 6 p.
16. **Low-frequency Resonances in Grid-Forming Converters: Causes and Damping Control**  
Zhao, F., Zhu, T., Li, Z. & Wang, X., 2024, In: *IEEE Transactions on Power Electronics* . 39, 11, p. 14430-14447 18 p.
17. **A Survey on Impedance-Based Dynamics Analysis Method for Inverter-Based Resources**  
Wu, H., Zhao, F. & Wang, X., Sept 2023, In: *IEEE Power Electronics Magazine*. 10, 3, 10262032.
18. **Comparative Evaluation of Converter Control Impact on Torsional Dynamics of Type-IV Grid-Forming Wind Turbines**  
Liu, S., Cirstea, R. G., Wu, H., Bosma, T. & Wang, X., 2024, In: *IEEE Transactions on Sustainable Energy*. 15, 4, p. 2803-2814 12 p.
19. **Short Circuit Protection of Silicon Carbide MOSFETs: Challenges, Methods, and Prospects**  
Zhang, M., Li, H., Yang, Z., Zhao, S., Wang, X. & Ding, L., 2024, In: *IEEE Transactions on Power Electronics* . 39, 10, p. 13081-13095 15 p.
20. **VSC Multifrequency Input-Admittance Modeling With Linear Time-Periodic PWM Representation**  
Harnfors, L., Li, Z., Heraïef, A., Finger, R., Sandberg, H. & Wang, X., 12 Jun 2024, In: *IEEE Journal of Emerging and Selected Topics in Power Electronics*. 12, 4, p. 3812-3822 11 p.
21. **WELCOME FROM: TECHNICAL PROGRAM CHAIRS**  
Ojo, O., Lu, X., Wang, X., Chen, M., Amirabadi, M., Rallabandi, V., Wang, J. & Gachovska, T., 2023, In: *2023 IEEE Energy Conversion Congress and Exposition, ECCE 2023*.
22. **Machine Learning At the Grid Edge: Data-Driven Impedance Models for Model-Free Inverters**  
Li, Y., Liao, Y., Zhao, L., Chen, M., Wang, X., Nordstrom, L., Mittal, P. & Poor, H. V., 1 Aug 2024, In: *IEEE Transactions on Power Electronics* . 39, 8, p. 10465-10481 17 p.
23. **Stability Analysis in Multi-VSC (Voltage Source Converter) Systems of Wind Turbines**  
Dimitropoulos, D., Wang, X. & Blaabjerg, F., Apr 2024, In: *Applied Sciences (Switzerland)*. 14, 8, 3519.
24. **Adaptive Synchronous Rectifier On-Time Control Within Dead-Time for Improving Light-Load Performance of LLC Resonant Converters**  
Sun, C., Sun, Q., Zhu, T., Wang, R., Zhao, F., Wang, P. & Wang, X., 1 Aug 2024, In: *IEEE Transactions on Power Electronics* . 39, 8, p. 9382-9398 17 p.
25. **Impact of DC-Link Voltage Control on Torsional Vibrations in Grid-Forming PMSG Wind Turbines**  
Liu, S., Wu, H., Bosma, T. & Wang, X., 2024, In: *IEEE Transactions on Energy Conversion*. 39, 4, p. 2631-2642 12 p.
26. **Impact of Synchronous Condensers' Ratings on Mitigating Subsynchronous Oscillations in Wind Farms**  
Dimitropoulos, D., Bakhshizadeh, M. K., Kocewiak, L., Wang, X. & Blaabjerg, F., Apr 2024, In: *Energies*. 17, 7, p. 1-20 20 p., 1730.
27. **Adaptive Anti-Saturation Control Design of Transformers in Converter-Based Grid Emulators**  
Li, Z., Zhao, F., Hans, F., Munk-Nielsen, S. & Wang, X., 1 Jun 2024, In: *IEEE Journal of Emerging and Selected Topics in Power Electronics*. 12, 3, p. 2809-2819 11 p.

28. **Analysis and Mitigation of Transient Overvoltage and Voltage Imbalance in Submodule Capacitors for MMC-Based Grid Emulators**  
Li, Z., Zhao, F., Munk-Nielsen, S., Geske, M. & Wang, X., 10 Apr 2024, In: I E E E Journal of Emerging and Selected Topics in Power Electronics. 12, 6, p. 5735-5749 15 p.
29. **Gain and Phase: Decentralized Stability Conditions for Power Electronics-Dominated Power Systems**  
Huang, L., Wang, D., Wang, X., Xin, H., Ju, P., Johansson, K. H. & Dörfler, F., 2024, In: IEEE Transactions on Power Systems. 39, 6, p. 7240-7256 17 p.
30. **Design of Filter-Based Stabilizing Control for PLL-Synchronized Converters**  
Zou, Z., Liu, X., Chen, W., Buticchi, G., Wang, X. & Liserre, M., 2024, In: IEEE Transactions on Industrial Electronics. 71, 11, p. 14208-14219 12 p.
31. **Stability Analysis and Active Damping Design for Grid-Forming Converters in LC Resonant Grids**  
Liu, S., Wu, H., Wang, X., Bosma, T. & Sauba, G., 2024, In: IEEE Open Journal of the Industrial Electronics Society. 5, p. 143-154 12 p.
32. **Closed-Form Solutions for Grid-Forming Converters: A Design-Oriented Study**  
Zhao, F., Zhu, T., Harnefors, L., Fan, B., Wu, H., Zhou, Z., Sun, Y. & Wang, X., 2024, In: IEEE Open Journal of Power Electronics. 5, p. 186-200 15 p.
33. **Adaptive Harmonic Conductance Control for Boost PFC Converters at Light Loads**  
Zhu, T., Zhao, F., Wang, X. & Torrico-Bascope, G. V., 1 Mar 2024, In: IEEE Transactions on Power Electronics . 39, 3, p. 3175-3185 11 p., 10372115.
34. **Design Considerations of Current-Limiting Control for Grid-Forming Capability Enhancement of VSCs under Large Grid Disturbances**  
Wu, H., Wang, X. & Zhao, L., 2024, In: IEEE Transactions on Power Electronics . 39, 10, p. 12081-12085 5 p.
35. **Guest Editorial: Control interactions in power electronic converter dominated power systems**  
Xie, X., Shair, J., Beerten, J., Fan, L., Gomis-Bellmunt, O., Vorobev, P., Preece, R., Shah, S., Wang, X., Wang, Y. & Terzija, V., Jan 2024, In: International Journal of Electrical Power and Energy Systems. 155, 109553.
36. **Enhanced Q-axis Voltage Integral Damping Control for Fast PLL-Synchronized Inverters in Weak Grids**  
Chen, F., Zhao, L., Harnefors, L., Wang, X., Kukkola, J. & Routimo, M., 1 Jan 2024, In: IEEE Transactions on Power Electronics . 39, 1, p. 424-435 12 p.
37. **Impedance Analysis and Resonance Mitigation for Boost PFC Converters Using Sample Correction**  
Zhu, T., Wang, X., Zhao, F. & Torrico-Bascope, G. V., 1 Dec 2023, In: IEEE Transactions on Power Electronics . 38, 12, p. 15214-15224 11 p.
38. **Power-Hardware Design and Topologies of Converter-Based Grid Emulators for Wind Turbines**  
Li, Z., Wang, X., Zhao, F., Munk-Nielsen, S., Geske, M., Grune, R., Bo Rønne Andersen, D. & Garnelo Rodriguez, M., 1 Oct 2023, In: I E E E Journal of Emerging and Selected Topics in Power Electronics. 11, 5, p. 5001-5017 17 p.
39. **Adaptive-Output-Voltage-Regulation-Based Solution for the DC-Link Undervoltage of Grid-Forming Inverters**  
Luo, C., Ma, X., Liu, T. & Wang, X., 1 Oct 2023, In: IEEE Transactions on Power Electronics . 38, 10, p. 12559-12569 11 p.
40. **Grid-forming control VSC-based including current limitation and re-synchronization functions to deal with symmetrical and asymmetrical faults**  
Qoria, T., Wang, X. & Kadri, R., Oct 2023, In: Electric Power Systems Research. 223, 109647.
41. **Editorial: Special Section on Patent-Related Short Articles**  
Li, Y. R., Agarwal, V. & Wang, X., 1 Jun 2023, In: IEEE Transactions on Power Electronics . 38, 6, p. 6748-6749 2 p.
42. **Design-Oriented Analysis of DC-Link Voltage Control for Transient Stability of Grid-Forming Inverters**  
Luo, C., Liu, T., Wang, X. & Ma, X., 1 Apr 2024, In: IEEE Transactions on Industrial Electronics. 71, 4, p. 3698-3707 10 p.
43. **Impedance-Based Dynamics Analysis for DC-Link Voltage-Synchronized Voltage-Source Converters**  
Zhao, L., Wang, X. & Jin, Z., 1 Sept 2023, In: IEEE Transactions on Power Electronics . 38, 9, p. 10829-10844 16 p.
44. **Current Reference Control Scheme of Voltage Source Converters to Ensure the Existence of Stable Equilibrium Points during Grid Fault**  
Wang, Z., Zhu, G., Wu, H., Gao, X., Ding, L. & Wang, X., 1 Sept 2023, In: IEEE Transactions on Power Electronics . 38, 9, p. 10750-10765 16 p.
45. **Energy-Storage Enhanced STATCOMs for Wind Power Plants**  
Zhao, F., Wang, X., Zhou, Z., Meng, L., Hasler, J.-P., Svensson, J. R., Kocewiak, L., Bai, H. & Zhang, H., Jun 2023, In: I E E E Power Electronics Magazine. 10, 2, p. 34-39

46. **Fault current control of MMC in HVDC-connected offshore wind farm: A coordinated perspective with current differential protection**  
Gao, G., Wu, H., Blaabjerg, F. & Wang, X., Jun 2023, In: International Journal of Electrical Power & Energy Systems. 148, p. 1-13 13 p., 108952.
47. **Control of Grid-Forming VSCs: A Perspective of Adaptive Fast/Slow Internal Voltage Source**  
Wu, H. & Wang, X., 1 Aug 2023, In: IEEE Transactions on Power Electronics . 38, 8, p. 10151-10169 19 p.
48. **Parallel Connection of Silicon Carbide MOSFETs - Challenges, Mechanism, and Solutions**  
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