## List of Publications by Year in descending order

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| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Reduced Switching-Frequency Modulation and Circulating Current Suppression for Modular<br>Multilevel Converters. IEEE Transactions on Power Delivery, 2011, 26, 2009-2017.   | 2.9 | 1,202     |
| 2  | Direct Active and Reactive Power Control of DFIG for Wind Energy Generation. IEEE Transactions on Energy Conversion, 2006, 21, 750-758.  | 3.7 | 604       |
| 3  | Control and Operation of a DC Microgrid With Variable Generation and Energy Storage. IEEE Transactions on Power Delivery, 2011, 26, 2513-2522.   | 2.9 | 510       |
| 4  | Design and Operation of a Hybrid Modular Multilevel Converter. IEEE Transactions on Power<br>Electronics, 2015, 30, 1137-1146.   | 5.4 | 368       |
| 5  | Direct Power Control of DFIG With Constant Switching Frequency and Improved Transient Performance. IEEE Transactions on Energy Conversion, 2007, 22, 110-118.  | 3.7 | 350       |
| 6  | Grid Integration of Large DFIG-Based Wind Farms Using VSC Transmission. IEEE Transactions on Power Systems, 2007, 22, 976-984.   | 4.6 | 344       |
| 7  | Coordinated Control of DFIG's Rotor and Grid Side Converters During Network Unbalance. IEEE<br>Transactions on Power Electronics, 2008, 23, 1041-1049.   | 5.4 | 306       |
| 8  | Control of PMSG-Based Wind Turbines for System Inertial Response and Power Oscillation Damping.<br>IEEE Transactions on Sustainable Energy, 2015, 6, 565-574.  | 5.9 | 284       |
| 9  | DC Fault Detection and Location in Meshed Multiterminal HVDC Systems Based on DC Reactor Voltage<br>Change Rate. IEEE Transactions on Power Delivery, 2017, 32, 1516-1526.   | 2.9 | 278       |
| 10 | Autonomous DC Voltage Control of a DC Microgrid With Multiple Slack Terminals. IEEE Transactions on Power Systems, 2012, 27, 1897-1905.  | 4.6 | 251       |
| 11 | HVDC transmission for large offshore wind farms. Power Engineering Journal, 2002, 16, 135-141.   | 0.2 | 214       |
| 12 | Model-Based Predictive Direct Power Control of Doubly Fed Induction Generators. IEEE Transactions on Power Electronics, 2010, 25, 341-351.   | 5.4 | 201       |
| 13 | Enhanced Control and Operation of DFIG-Based Wind Farms During Network Unbalance. IEEE<br>Transactions on Energy Conversion, 2008, 23, 1073-1081.  | 3.7 | 191       |
| 14 | VSC Transmission Operating Under Unbalanced AC Conditions—Analysis and Control Design. IEEE<br>Transactions on Power Delivery, 2005, 20, 427-434.  | 2.9 | 188       |
| 15 | A Transient Voltage-Based DC Fault Line Protection Scheme for MMC-Based DC Grid Embedding DC<br>Breakers. IEEE Transactions on Power Delivery, 2019, 34, 334-345.  | 2.9 | 181       |
| 16 | Improved Direct Power Control of Grid-Connected DC/AC Converters. IEEE Transactions on Power Electronics, 2009, 24, 1280-1292.   | 5.4 | 177       |
| 17 | Precharging and DC Fault Ride-Through of Hybrid MMC-Based HVDC Systems. IEEE Transactions on Power Delivery, 2015, 30, 1298-1306.  | 2.9 | 153       |
| 18 | A Reliable Microgrid With Seamless Transition Between Grid Connected and Islanded Mode for<br>Residential Community With Enhanced Power Quality. IEEE Transactions on Industry Applications,<br>2018, 54, 5246-5255. | 3.3 | 151       |

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|----|--|-----|-----------|
| 19 | Grid connection of large offshore wind farms using HVDC. Wind Energy, 2006, 9, 371-382.  | 1.9 | 140       |
| 20 | Continuous Operation of Radial Multiterminal HVDC Systems Under DC Fault. IEEE Transactions on Power Delivery, 2016, 31, 351-361.  | 2.9 | 138       |
| 21 | Improvement of the Hilbert Method via ESPRIT for Detecting Rotor Fault in Induction Motors at Low<br>Slip. IEEE Transactions on Energy Conversion, 2013, 28, 225-233.  | 3.7 | 127       |
| 22 | Multi-terminal DC transmission systems for connecting large offshore wind farms. , 2008, , .   |     | 104       |
| 23 | A Hybrid Modular Multilevel Converter With Novel Three-Level Cells for DC Fault Blocking Capability.<br>IEEE Transactions on Power Delivery, 2015, 30, 2017-2026.  | 2.9 | 99        |
| 24 | Predictive Current Control of Doubly Fed Induction Generators. IEEE Transactions on Industrial Electronics, 2009, 56, 4143-4153.   | 5.2 | 93        |
| 25 | Slidingâ€mode control of a wind turbineâ€driven doubleâ€fed induction generator under nonâ€ideal grid<br>voltages. IET Renewable Power Generation, 2013, 7, 370-379.   | 1.7 | 84        |
| 26 | Coordinated Control of DFIG and FSIG-Based Wind Farms Under Unbalanced Grid Conditions. IEEE<br>Transactions on Power Delivery, 2010, 25, 367-377.   | 2.9 | 82        |
| 27 | Distributed PLL-Based Control of Offshore Wind Turbines Connected With Diode-Rectifier-Based HVDC<br>Systems. IEEE Transactions on Power Delivery, 2018, 33, 1328-1336.  | 2.9 | 81        |
| 28 | A Nearest Level PWM Method for the MMC in DC Distribution Grids. IEEE Transactions on Power Electronics, 2018, 33, 9209-9218.  | 5.4 | 80        |
| 29 | Leaky-Least-Logarithmic-Absolute-Difference-Based Control Algorithm and Learning-Based InC MPPT<br>Technique for Grid-Integrated PV System. IEEE Transactions on Industrial Electronics, 2019, 66,<br>9003-9012. | 5.2 | 77        |
| 30 | Enhanced Independent Pole Control of Hybrid MMC-HVdc System. IEEE Transactions on Power Delivery, 2018, 33, 861-872.   | 2.9 | 73        |
| 31 | VSC Transmission System Using Flying Capacitor Multilevel Converters and Hybrid PWM Control. IEEE<br>Transactions on Power Delivery, 2007, 22, 693-702.  | 2.9 | 72        |
| 32 | Adjustable Inertial Response From the Converter With Adaptive Droop Control in DC Grids. IEEE<br>Transactions on Smart Grid, 2019, 10, 3198-3209.  | 6.2 | 54        |
| 33 | Coordinated Control of Parallel DR-HVDC and MMC-HVDC Systems for Offshore Wind Energy<br>Transmission. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 2572-2582.                    | 3.7 | 52        |
| 34 | Analysis and Control of Modular Multilevel Converters under Asymmetric Arm Impedance Conditions.<br>IEEE Transactions on Industrial Electronics, 2016, 63, 71-81.  | 5.2 | 47        |
| 35 | Active Control of DC Fault Currents in DC Solid-State Transformers During Ride-Through Operation of Multi-Terminal HVDC Systems. IEEE Transactions on Energy Conversion, 2016, 31, 1336-1346.                    | 3.7 | 46        |
| 36 | Offshore AC Fault Protection of Diode Rectifier Unit-Based HVdc System for Wind Energy<br>Transmission. IEEE Transactions on Industrial Electronics, 2019, 66, 5289-5299.  | 5.2 | 45        |

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|----|--|-----|-----------|
| 37 | Comparison of Using SVC and STATCOM for Wind Farm Integration. , 2006, , .   |     | 43        |
| 38 | An ESPRIT-SAA-Based Detection Method for Broken Rotor Bar Fault in Induction Motors. IEEE<br>Transactions on Energy Conversion, 2012, 27, 654-660.   | 3.7 | 41        |
| 39 | Power oscillation damping using wind turbines with energy storage systems. IET Renewable Power Generation, 2013, 7, 449-457.   | 1.7 | 41        |
| 40 | Analysis of voltage source converterâ€based highâ€voltage direct current under DC lineâ€ŧoâ€earth fault. IET<br>Power Electronics, 2015, 8, 428-438.   | 1.5 | 41        |
| 41 | A Novel Method to Determine Droop Coefficients of DC Voltage Control for VSC-MTDC System. IEEE<br>Transactions on Power Delivery, 2020, 35, 2196-2211.   | 2.9 | 41        |
| 42 | DC grid management of a multi-terminal HVDC transmission system for large offshore wind farms. ,<br>2009, , .  |     | 39        |
| 43 | Coordinated DC Voltage Control of Wind Turbine With Embedded Energy Storage System. IEEE<br>Transactions on Energy Conversion, 2012, 27, 1036-1045.  | 3.7 | 39        |
| 44 | Protection of large partitioned MTDC Networks Using DC-DC converters and circuit breakers.<br>Protection and Control of Modern Power Systems, 2016, 1, .   | 4.3 | 38        |
| 45 | Enhanced Flat-Topped Modulation for MMC Control in HVDC Transmission Systems. IEEE Transactions on Power Delivery, 2017, 32, 152-161.  | 2.9 | 38        |
| 46 | Control of an LCC HVDC system for connecting large offshore wind farms with special consideration of grid fault. , 2008, , .   |     | 37        |
| 47 | An improved modular multilevel converter with DC fault blocking capability. , 2014, , .  |     | 36        |
| 48 | An Improved Transient Traveling-Wave Based Direction Criterion for Multi-Terminal HVDC Grid. IEEE<br>Transactions on Power Delivery, 2020, 35, 2517-2529.  | 2.9 | 35        |
| 49 | Control of Offshore MMC During Asymmetric Offshore AC Faults for Wind Power Transmission. IEEE<br>Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 1074-1083.  | 3.7 | 34        |
| 50 | Current Error Based Compensations for VSC Current Control in Weak Grids for Wind Farm Applications. IEEE Transactions on Sustainable Energy, 2019, 10, 26-35.  | 5.9 | 33        |
| 51 | Direct Power Control of Grid Connected Voltage Source Converters. IEEE Power Engineering Society<br>General Meeting, 2007, , .   | 0.0 | 28        |
| 52 | Control of DFIG-Based Wind Generation Systems under Unbalanced Network Supply. , 2007, , .   |     | 25        |
| 53 | Proportional integral plus multi-frequency resonant current controller for grid-connected voltage source converter under imbalanced and distorted supply voltage conditions. Journal of Zhejiang University: Science A, 2009, 10, 1532-1540. | 1.3 | 24        |
| 54 | Enhanced AC voltage and frequency control of offshore MMC station for wind farm connection. IET Renewable Power Generation, 2018, 12, 1771-1777.   | 1.7 | 24        |

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|----|--|-----|-----------|
| 55 | Improved use of WT kinetic energy for system frequency support. IET Renewable Power Generation, 2017, 11, 1094-1100.   | 1.7 | 22        |
| 56 | Techno-Economic Assessment of Energy Storage Technologies for Inertia Response and Frequency<br>Support from Wind Farms. Energies, 2020, 13, 3421.                                       | 1.6 | 21        |
| 57 | Dynamic modeling and direct power control of wind turbine driven DFIG under unbalanced network voltage conditions. Journal of Zhejiang University: Science A, 2008, 9, 1731-1740.        | 1.3 | 20        |
| 58 | Review of Local Network Impedance Estimation Techniques. IEEE Access, 2020, 8, 213647-213661.  | 2.6 | 20        |
| 59 | Analysis and Control of Offshore Wind Farms Connected With Diode Rectifier-Based HVDC System.<br>IEEE Transactions on Power Delivery, 2020, 35, 2049-2059.                               | 2.9 | 20        |
| 60 | A Unidirectional Hybrid HVDC Transmission System Based on Diode Rectifier and Full-Bridge MMC. IEEE<br>Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 6974-6984. | 3.7 | 20        |
| 61 | Accelerated switching function model of hybrid MMCs for HVDC system simulation. IET Power Electronics, 2017, 10, 2199-2207.  | 1.5 | 20        |
| 62 | DC fault protection strategy considering DC network partition. , 2016, , .   |     | 18        |
| 63 | Adaptive DC Stabilizer with Reduced DC fault Current for Active Distribution Power System Application. IEEE Transactions on Power Systems, 2016, , 1-1.                                  | 4.6 | 17        |
| 64 | Behaviour and protection of doubly-fed induction generators during network faults. , 2009, , .   |     | 16        |
| 65 | DC network stability and dynamic analysis using virtual impedance method. , 2012, , .  |     | 16        |
| 66 | Frequency support using multiâ€ŧerminal HVDC systems based on DC voltage manipulation. IET<br>Renewable Power Generation, 2016, 10, 1393-1401.   | 1.7 | 16        |
| 67 | Flexible Virtual Synchronous Generator Control for Distributed Generator with Adaptive Inertia.<br>Electric Power Components and Systems, 2019, 47, 128-140.                             | 1.0 | 16        |
| 68 | Power Electronics Options for Large Wind Farm Integration: VSC-Based HVDC Transmission. , 2006, , .  |     | 15        |
| 69 | Coordinated control and operation of DFIG and FSIG based Wind Farms. , 2007, , .   |     | 15        |
| 70 | Wind turbines output power smoothing using embedded energy storage systems. Journal of Modern<br>Power Systems and Clean Energy, 2013, 1, 49-57.   | 3.3 | 15        |
| 71 | Review of DC fault protection for HVDC grids. Wiley Interdisciplinary Reviews: Energy and Environment, 2018, 7, e278.  | 1.9 | 15        |
| 72 | Hierarchical control of offshore wind farm connected by parallel diodeâ€rectifierâ€based HVDC and HVAC links. IET Renewable Power Generation, 2019, 13, 1493-1502.                       | 1.7 | 15        |

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|----|--|-----|-----------|
| 73 | An Integrated Control and Protection Scheme Based on FBSM-MMC Active Current Limiting Strategy for DC Distribution Network. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 2632-2642. | 3.7 | 15        |
| 74 | Impedance Modelling and Stability Analysis of Diode-Rectifier based HVDC Connected Offshore Wind Farms. IEEE Transactions on Power Delivery, 2022, 37, 591-602.  | 2.9 | 15        |
| 75 | Hybrid modular multilevel converter based multiâ€ŧerminal DC/DC converter with minimised fullâ€bridge<br>submodules ratio considering DC fault isolation. IET Renewable Power Generation, 2016, 10, 1587-1596.     | 1.7 | 14        |
| 76 | Enhanced AC voltage and frequency control on offshore MMC station for wind farm. Journal of Engineering, 2017, 2017, 1264-1268.  | 0.6 | 14        |
| 77 | Multiâ€ŧasking dc–dc and dc–ac converters for dc voltage tapping and power control in highly meshed<br>multiâ€ŧerminal HVDC networks. IET Power Electronics, 2017, 10, 2217-2228.                                  | 1.5 | 13        |
| 78 | DC Fault Protection of Diode Rectifier Unit Based HVDC System Connecting Offshore Wind Farms. , 2018, , .  |     | 13        |
| 79 | Energy Efficient Three-Phase Utility Interactive Residential Microgrid With Mode Transfer Capabilities<br>at Weak Grid Conditions. IEEE Transactions on Industry Applications, 2019, 55, 7082-7091.                | 3.3 | 13        |
| 80 | Detailed quantitative comparison of halfâ€bridge modular multilevel converter modelling methods.<br>Journal of Engineering, 2019, 2019, 1292-1298.   | 0.6 | 13        |
| 81 | A Hybrid Modular Multilevel Converter With Reduced Full-Bridge Submodules. IEEE Transactions on Power Delivery, 2020, 35, 1876-1885.   | 2.9 | 13        |
| 82 | Enhanced Control of Offshore Wind Farms Connected to MTDC Network Using Partially Selective DC<br>Fault Protection. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 2926-2935.         | 3.7 | 13        |
| 83 | Contribution of VSC-HVDC connected wind farms to grid frequency regulation and power damping. , 2010, , .  |     | 12        |
| 84 | Improved Two-Level Voltage Source Converter for High-Voltage Direct Current Transmission Systems.<br>IEEE Journal of Emerging and Selected Topics in Power Electronics, 2017, 5, 1670-1686.                        | 3.7 | 12        |
| 85 | Wind turbines with energy storage for power smoothing and FRT enhancement. , 2011, , .   |     | 11        |
| 86 | Study on high voltage ride through control strategy of PMSGâ€based wind turbine generation system with SCESU. Journal of Engineering, 2019, 2019, 4257-4260.   | 0.6 | 11        |
| 87 | Parallel operation of diodeâ€rectifier based HVDC link and HVAC link for offshore wind power transmission. Journal of Engineering, 2019, 2019, 4713-4717.  | 0.6 | 10        |
| 88 | Frequency regulation participation of offshore wind farm integrated by diodeâ€rectifer HVDC system.<br>Journal of Engineering, 2019, 2019, 977-981.  | 0.6 | 9         |
| 89 | MMC Impedance Modeling and Interaction of Converters in Close Proximity. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 7223-7236.  | 3.7 | 9         |
| 90 | DC Fault Study of a Point-to-Point HVDC System Integrating Offshore Wind Farm Using<br>High-Temperature Superconductor DC Cables. IEEE Transactions on Energy Conversion, 2022, 37,<br>377-388.                    | 3.7 | 9         |

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| 91  | Submodule configuration of HVDCâ€DC autotransformer considering DC fault. IET Power Electronics, 2016, 9, 2776-2785.   | 1.5 | 8         |
| 92  | Active distribution power system with multiâ€ŧerminal DC links. IET Renewable Power Generation, 2017, 11, 27-34.   | 1.7 | 8         |
| 93  | Hybrid converter topologies for dc transmission systems. IET Power Electronics, 2019, 12, 607-619.   | 1.5 | 8         |
| 94  | Control of DFIG-based wind farms for network unbalance compensation. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .   | 0.0 | 7         |
| 95  | High performance predictive current control of bi-directional DC-DC converters for DC micro grid application. , 2011, , .  |     | 6         |
| 96  | A Novel VSG-Based Accurate Voltage Control and Reactive Power Sharing Method for Islanded Microgrids. Sustainability, 2019, 11, 6666.  | 1.6 | 6         |
| 97  | Hybrid AC/DC hub for integrating onshore wind power and interconnecting onshore and offshore DC networks. IET Renewable Power Generation, 2020, 14, 1738-1745.                           | 1.7 | 6         |
| 98  | Improved Direct Power Control of Doubly-Fed Induction Generator Based Wind Energy System. , 2007, ,  |     | 4         |
| 99  | An Alternative Current-Error Based Control for VSC Integration to Weak Grid. , 2018, , .   |     | 4         |
| 100 | Control of VSCâ€HVDC connected wind farms for system frequency support. International Transactions on Electrical Energy Systems, 2020, 30, e12352.                                       | 1.2 | 4         |
| 101 | Impact of DC protection strategy of large HVDC network on frequency response of the connected AC system. Journal of Engineering, 2019, 2019, 4031-4035.                                  | 0.6 | 4         |
| 102 | Improved rotor current control of wind turbine driven doubly fed induction generators during network unbalance. , 2009, , .  |     | 3         |
| 103 | Transient analysis of an interline dynamic voltage restorer using dynamic phasor representation. , 2016, , .   |     | 3         |
| 104 | Protection and postâ€fault recovery of large HVDC networks using partitioning and fastâ€acting DC breakers at strategic locations. Journal of Engineering, 2019, 2019, 2736-2742.        | 0.6 | 3         |
| 105 | A Less-Intrusive Approach to Stabilize VSC Transmission Against Highly Variable Grid Strength. IEEE<br>Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 7199-7211. | 3.7 | 3         |
| 106 | Generalised dqâ€dynamic phasor modelling of a STATCOM connected to a grid for stability analysis. IET<br>Power Electronics, 2020, 13, 720-731.   | 1.5 | 3         |
| 107 | Harmonic Voltage Control in Distributed Generation Systems Using Optimal Switching Vector Strategy. IEEE Systems Journal, 2022, 16, 1861-1872.   | 2.9 | 3         |
| 108 | A Diode-MMC AC/DC Hub for Connecting Offshore Wind Farm and Offshore Production Platform.<br>Energies, 2021, 14, 3759.   | 1.6 | 3         |

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| 109 | Improved operation of DFIG and FSIG-based wind farms during network unbalance. , 2008, , .   |     | 2         |
| 110 | DC microgrid dynamic performance assessment and enhancement based on virtual impedance method. , 2014, , .   |     | 2         |
| 111 | DC STATCOM in multiâ€ŧerminal DC distribution power system. Journal of Engineering, 2017, 2017, 2017, 2077-2082.   | 0.6 | 2         |
| 112 | A Wind Farm Frequency Control Method Based on the Frequency Regulation Ability of Wind Turbine Generators. , 2020, , .   |     | 2         |
| 113 | Microgrid design using folded P-f droop and new grid interface unit to minimize the need for communication. International Journal of Electrical Power and Energy Systems, 2021, 130, 106949. | 3.3 | 2         |
| 114 | Credible Reactive Power Regulation Capacity Assessment of DFIG Wind Farms. , 2021, , .   |     | 2         |
| 115 | Real-Time Reactive Power Regulation Capacity Assessment of DFIG Wind Farms. , 2022, , .  |     | 2         |
| 116 | Modeling and analysis approaches for smallâ€signal stability assessment of powerâ€electronicâ€dominated systems. Wiley Interdisciplinary Reviews: Energy and Environment, 2023, 12, .        | 1.9 | 2         |
| 117 | Improved direct power control of three-phase PWM converters. , 2008, , .   |     | 1         |
| 118 | Combined deload and kinetic energy control of variable speed wind turbines for frequency support. ,<br>2016, , .   |     | 1         |
| 119 | Studies of coordinated zone protection strategy for DC grid. , 2016, , .   |     | 1         |
| 120 | Frequency control capability of wind turbine under different operation status. Journal of Engineering, 2017, 2017, 1533-1538.  | 0.6 | 1         |
| 121 | A Coordinated Frequency Regulation Method for Offshore Wind Farms Integrated by VSC-HVDC. , 2020, , .  |     | 1         |
| 122 | Energy-Based Virtual Damping Control of FB-MMCs for HVDC Grid. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 7320-7328.  | 3.7 | 1         |
| 123 | Stability norms control using the virtual impedance concept for power frequency applications. , 2017, , .  |     | Ο         |
| 124 | Active Control of DC Fault Currents in DC Solid-State Transformers during Ride-Through Operation of Multi-Terminal HVDC Systems. , 2018, , .   |     | 0         |
| 125 | Simulation-based Optimisation of LCC-HVDC Controller Parameters using Surrogate Model Solvers. , 2019, , .   |     | 0         |
| 126 | Interoperability assessment of MMC and DRU connected offshore windfarms in meshed multi-terminal dc grids. , 2019, , .   |     | 0         |

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| 127 | Parameter Value Selection of Wind Turbines Frequency Controller. , 2019, , .   |    | Ο         |
| 128 | PN admittance characterisation of grid supporting VSC controllers with negative sequence regulation and inertia emulation. , 2021, , . |    | 0         |