List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
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| 1 | Mission Profile Based System-Level Reliability Analysis of DC/DC Converters for a Backup Power Application. IEEE Transactions on Power Electronics, 2018, 33, 8030-8039. | 7.9 | 144 |
| 2 | Comparison of Wind Power Converter Reliability With Low-Speed and Medium-Speed Permanent-Magnet Synchronous Generators. IEEE Transactions on Industrial Electronics, 2015, 62, 6575-6584. | 7.9 | 124 |
| 3 | Modelling, Implementation, and Assessment of Virtual Synchronous Generator in Power Systems. Journal of Modern Power Systems and Clean Energy, 2020, 8, 399-411. | 5.4 | 104 |
| 4 | On the Impacts of PV Array Sizing on the Inverter Reliability and Lifetime. IEEE Transactions on Industry Applications, 2018, 54, 3656-3667. | 4.9 | 95 |
| 5 | Optimized Reactive Power Flow of DFIG Power Converters for Better Reliability Performance Considering Grid Codes. IEEE Transactions on Industrial Electronics, 2015, 62, 1552-1562. | 7.9 | 89 |
| 6 | Thermal Cycling Overview of Multi-Megawatt Two-Level Wind Power Converter at Full Grid Code Operation. IEEJ Journal of Industry Applications, 2013, 2, 173-182. | 1.1 | 83 |
| 7 | Reduced Cost of Reactive Power in Doubly Fed Induction Generator Wind Turbine System With Optimized Grid Filter. IEEE Transactions on Power Electronics, 2015, 30, 5581-5590. | 7.9 | 82 |
| 8 | Dynamics and Control of Lateral Tower Vibrations in Offshore Wind Turbines by Means of Active Generator Torque. Energies, 2014, 7, 7746-7772. | 3.1 | 75 |
| 9 | Enhanced Transient Angle Stability Control of Grid-Forming Converter Based on Virtual Synchronous Generator. IEEE Transactions on Industrial Electronics, 2022, 69, 9133-9144. | 7.9 | 63 |
| 10 | Bandwidth oriented proportionalâ€integral controller design for backâ€toâ€back power converters in DFIG wind turbine system. IET Renewable Power Generation, 2017, 11, 941-951. | 3.1 | 60 |
| 11 | Mission Profile Based Reliability Evaluation of Capacitor Banks in Wind Power Converters. IEEE Transactions on Power Electronics, 2019, 34, 4665-4677. | 7.9 | 59 |
| 12 | Optimal Selection of Power Converter in DFIG Wind Turbine With Enhanced System-Level Reliability. IEEE Transactions on Industry Applications, 2018, 54, 3637-3644. | 4.9 | 58 |
| 13 | Active Power Oscillation Damping Based on Acceleration Control in Paralleled Virtual Synchronous Generators System. IEEE Transactions on Power Electronics, 2021, 36, 9501-9510. | 7.9 | 51 |
| 14 | Optimal reactive power dispatch of permanent magnet synchronous generator-based wind farm considering levelised production cost minimisation. Renewable Energy, 2020, 145, 1-12. | 8.9 | 50 |
| 15 | Thermal Behavior Optimization in Multi-MW Wind Power Converter by Reactive Power Circulation. IEEE Transactions on Industry Applications, 2014, 50, 433-440. | 4.9 | 45 |
| 16 | Optimized Demagnetizing Control of DFIG Power Converter for Reduced Thermal Stress During Symmetrical Grid Fault. IEEE Transactions on Power Electronics, 2018, 33, 10326-10340. | 7.9 | 43 |
| 17 | An Improved Direct Power Control for Doubly Fed Induction Generator. IEEE Transactions on Power Electronics, 2021, 36, 4672-4685. | 7.9 | 42 |
| 18 | A Double-PLLs-Based Impedance Reshaping Method for Extending Stability Range of Grid-Following Inverter Under Weak Grid. IEEE Transactions on Power Electronics, 2022, 37, 4091-4104. | 7.9 | 38 |

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| 19 | Generalized Multivariable Grid-Forming Control Design for Power Converters. IEEE Transactions on Smart Grid, 2022, 13, 2873-2885. | 9.0 | 37 |
| 20 | Analysis and Mitigation of SSCI in DFIG Systems With Experimental Validation. IEEE Transactions on Energy Conversion, 2020, 35, 714-723. | 5.2 | 36 |
| 21 | Reactive Power Dispatch Method in Wind Farms to Improve the Lifetime of Power Converter Considering Wake Effect. IEEE Transactions on Sustainable Energy, 2017, 8, 477-487. | 8.8 | 33 |
| 22 | A System Engineering Approach Using FMEA and Bayesian Network for Risk Analysis—A Case Study. Sustainability, 2020, 12, 77. | 3.2 | 31 |
| 23 | Aliasing Suppression of Multisampled Current-Controlled LCL-Filtered Inverters. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 2411-2423. | 5.4 | 30 |
| 24 | Evaluation and Design Tools for the Reliability of Wind Power Converter System. Journal of Power Electronics, 2015, 15, 1149-1157. | 1.5 | 30 |
| 25 | A reliability-oriented design method for power electronic converters. , 2013, , . | | 28 |
| 26 | A Novel Type-2 Fuzzy Logic for Improved Risk Analysis of Proton Exchange Membrane Fuel Cells in Marine Power Systems Application. Energies, 2018, 11, 721. | 3.1 | 28 |
| 27 | Lifetime-Oriented Droop Control Strategy for AC Islanded Microgrids. IEEE Transactions on Industry Applications, 2019, 55, 3252-3263. | 4.9 | 28 |
| 28 | Multitimescale Reliability Evaluation of DC-Link Capacitor Banks in Metro Traction Drive System. IEEE Transactions on Transportation Electrification, 2020, 6, 213-227. | 7.8 | 28 |
| 29 | Characteristics of Parallel Inverters Applying Virtual Synchronous Generator Control. IEEE Transactions on Smart Grid, 2021, 12, 4690-4701. | 9.0 | 25 |
| 30 | Wind Turbine Power Curve Design for Optimal Power Generation in Wind Farms Considering Wake Effect. Energies, 2017, 10, 395. | 3.1 | 24 |
| 31 | A Novel Direct Power Control for DFIG With Parallel Compensator Under Unbalanced Grid Condition. IEEE Transactions on Industrial Electronics, 2021, 68, 9607-9618. | 7.9 | 24 |
| 32 | Impact of Grid Strength and Impedance Characteristics on the Maximum Power Transfer Capability of Grid-Connected Inverters. Applied Sciences (Switzerland), 2021, 11, 4288. | 2.5 | 23 |
| 33 | Converter-Level Reliability of Wind Turbine With Low Sample Rate Mission Profile. IEEE Transactions on Industry Applications, 2020, 56, 2938-2944. | 4.9 | 22 |
| 34 | A Review of Multisampling Techniques in Power Electronics Applications. IEEE Transactions on Power Electronics, 2022, 37, 10514-10533. | 7.9 | 22 |
| 35 | A Review on Fault Current Limiting Devices to Enhance the Fault Ride-Through Capability of the Doubly-Fed Induction Generator Based Wind Turbine. Applied Sciences (Switzerland), 2018, 8, 2059. - | 2.5 | 21 |
| 36 | Line Voltage Sensorless Control of Grid-Connected Inverters Using Multisampling. IEEE Transactions on Power Electronics, 2022, 37, 4792-4803. | 7.9 | 21 |

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| 37 | Optimal Control to Increase Energy Production of Wind Farm Considering Wake Effect and Lifetime Estimation. Applied Sciences (Switzerland), 2017, 7, 65. | 2.5 | 19 |
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| 39 | Component-Level Reliability Assessment of a Direct-Drive PMSG Wind Power Converter Considering Two Terms of Thermal Cycles and the Parameter Sensitivity Analysis. IEEE Transactions on Power Electronics, 2021, 36, 10037-10050. | 7.9 | 19 |
| 40 | Thermal analysis of multi-MW two-level wind power converter. , 2012, , . | | 16 |
| 41 | Modified Instantaneous Power Control With Phase Compensation and Current-Limited Function Under Unbalanced Grid Faults. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 2896-2906. | 5.4 | 16 |
| 42 | System-level reliability assessment of power stage in fuel cell application. , 2016, , . | | 15 |
| 43 | Reliability Analysis of Capacitors in Voltage Regulator Modules With Consecutive Load Transients. IEEE Transactions on Power Electronics, 2021, 36, 2481-2487. | 7.9 | 15 |
| 44 | Stability Analysis of Grid-Following and Grid-Forming Converters Based on State-Space Model. , 2022, , | | 15 |
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| 46 | Lifetime estimation of electrolytic capacitors in a fuel cell power converter at various confidence levels. , 2016, , . | | 14 |
| 47 | Fundamental-frequency and load-varying thermal cycles effects on lifetime estimation of DFIG power converter. Microelectronics Reliability, 2017, 76-77, 549-555. | 1.7 | 14 |
| 48 | Reactive Power Impacts on LCL Filter Capacitor Lifetime in Grid-Connected Inverter. IEEE Open Journal of Power Electronics, 2020, 1, 139-148. | 5.7 | 14 |
| 49 | Degradation effect on reliability evaluation of aluminum electrolytic capacitor in backup power converter. , 2017, , . | | 13 |
| 50 | Reliability assessment of power conditioner considering maintenance in a PEM fuel cell system. Microelectronics Reliability, 2018, 88-90, 1177-1182. | 1.7 | 13 |
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| 52 | Torque Ripple Minimization of a Five-Phase Induction Motor Under Open-Phase Faults Using Symmetrical Components. IEEE Access, 2020, 8, 114675-114691. | 4.2 | 12 |
| 53 | Resonating Power Decoupling Using Multifunctional Bidirectional DC/DC Converter in Hybrid Railway Traction Application. IEEE Transactions on Power Electronics, 2022, 37, 404-415. | 7.9 | 12 |
| 54 | Optimal active and reactive power cooperative dispatch strategy of wind farm considering levelised production cost minimisation. Renewable Energy, 2020, 148, 113-123. | 8.9 | 11 |

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| 57 | Maximum energy yield oriented turbine control in PMSGâ€based wind farm. Journal of Engineering, 2017, 2017, 2017, 2455-2460. | 1.1 | 9 |
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| 60 | Grid-Following and Grid-Forming Control in Power Electronic Based Power Systems: A Comparative Study. , 2021, , . | | 9 |
| 61 | Passivity-Based Multisampled Converter-Side Current Control of <i>LCL</i> -Filtered VSCs. IEEE Transactions on Power Electronics, 2022, 37, 13848-13860. | 7.9 | 9 |
| 62 | Thermal behavior of doubly-fed induction generator wind turbine system during balanced grid fault. , 2014, , . | | 7 |
| 63 | Real mission profile based lifetime estimation of fuel-cell power converter. , 2016, , . | | 7 |
| 64 | Comparative evaluation of reliability assessment methods of power modules in motor drive inverter. Microelectronics Reliability, 2020, 114, 113730. | 1.7 | 7 |
| 65 | Thermal Mapping of Power Semiconductors in H-Bridge Circuit. Applied Sciences (Switzerland), 2020, 10, 4340. | 2.5 | 7 |
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| 68 | Separation and Validation of Bond-Wire and Solder Layer Failure Modes in IGBT Modules. IEEE Transactions on Industry Applications, 2022, 58, 2324-2331. | 4.9 | 6 |
| 69 | Thermal analysis of two-level wind power converter under symmetrical grid fault. , 2013, , . | | 5 |
| 70 | Control of Wind Turbine System. , 2018, , 269-298. | | 5 |
| 71 | Benchmarking of capacitor power loss calculation methods for wear-out failure prediction in PV inverters. Microelectronics Reliability, 2019, 100-101, 113491. | 1.7 | 5 |
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| 77 | Reliability evaluation of power capacitors in a wind turbine system. , 2018, , . | | 4 |
| 78 | Wear-Out Failure of a Power Electronic Converter Under Inversion and Rectification Modes. , 2019, , . | | 4 |
| 79 | Multisampling Control of Two-Cell Interleaved Three-phase Grid-connected Converters. , 2021, , . | | 4 |
| 80 | Comparison of DC-link Voltage Control Schemes on Grid-side and Machine-side for Type-4 Wind Generation System Under Weak Grid. , 2021, , . | | 4 |
| 81 | Dynamic thermal analysis of DFIG rotor-side converter during balanced grid fault. , 2014, , . | | 3 |
| 82 | Modeling and stress analysis of Doubly-Fed Induction Generator during grid voltage swell. , 2016, , . | | 3 |
| 83 | Common-mode voltage reduction of three-to-five phase indirect matrix converters with zero-current vector modulation. , 2017, , . | | 3 |
| 84 | Reactive Power Impacts on LCL Filter Capacitor Lifetime and Reliability in DFIG Grid-Connected Inverter. , 2018, , . | | 3 |
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| 88 | Thermal behavior optimization in multi-MW wind power converter by reactive power circulation. , 2013, , . | | 2 |
| 89 | Reduced cost of reactive power in doubly fed induction generator wind turbine system with optimized grid filter. , 2014, , . | | 2 |
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| 91 | Lifetime-Oriented Droop Control Strategy for AC Islanded Microgrids. , 2018, , . | | 2 |
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| 93 | A Decentralized Adaptive SOC Balancing Strategy in VSG-based Islanded Power System. , 2021, , . | | 2 |
| 94 | Multisampling based Grid Impedance Estimation for Two-Cell Interleaved Three-phase Inverters. , 2021, , | | 2 |
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| 97 | Reliability and energy loss in full-scale wind power converter considering grid codes and wind classes. , 2014, , . | | 1 |
| 98 | Minimum junction temperature swing for DFIG to ride through symmetrical voltage dips. , 2015, , . | | 1 |
| 99 | Improved DFIG capability during asymmetrical grid faults. , 2015, , . | | 1 |
| 100 | Reliablity assessment of fuel cell system - A framework for quantitative approach. , 2016, , . | | 1 |
| 101 | Impedance based analysis of DFIG stator current unbalance and distortion suppression strategies. , 2016, , . | | 1 |
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| 103 | System-level reliability assessment for a direct-drive PMSG based wind turbine with multiple converters. Microelectronics Reliability, 2020, 114, 113801. | 1.7 | 1 |
| 104 | Optimized Design of Grid-Side Converter in PMSG with Improved Turbine-Level Reliability. , 2021, , . | | 1 |
| 105 | Multisampling Control of LCL-type Grid-connected Inverter with an Improved Repetitive Filter. , 2020, , | | 1 |
| 106 | Recurrent neural networks model based reliability assessment of power semiconductors in PMSG converter. Microelectronics Reliability, 2021, 126, 114314. | 1.7 | 1 |
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| 109 | Study on Application of New Approach of Fault Current Limiters in Fault Ride through Capability Improvement of DFIG Based Wind Turbine. , 2018, , . | | 0 |
| 110 | Impact of Background Harmonic on Filter Capacitor Reliability in Wind Turbine. , 2019, , . | | 0 |
| 111 | Component-level Reliability Assessment of a Direct-drive PMSG Wind Power Converter Considering Long-term and short-term thermal cycles. , 2020, , . | | 0 |
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| 113 | Beatâ€less algorithm based on dualâ€frequency compensation in railway traction applications. IET Power Electronics, 2021, 14, 1985-1994. | 2.1 | 0 |
| 114 | Converter-Level Reliability of Wind Turbine with Low Sample Rate Mission Profile. , 2019, , . | | 0 |