

# Heverton Pereira

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

82

papers

581

citations

13

h-index

19

g-index

110

ext. papers

847

ext. citations

3.7

avg, IF

4.49

L-index

#	Paper	IF	Citations
82	On the Redundancy Strategies of Modular Multilevel Converters. <i>IEEE Transactions on Power Delivery</i> , <b>2018</b> , 33, 851-860	4.3	37
81	Comparison of DSCC and SDBC Modular Multilevel Converters for STATCOM Application During Negative Sequence Compensation. <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 66, 2302-2312	8.9	37
80	Damping techniques for grid-connected voltage source converters based on LCL filter: An overview. <i>Renewable and Sustainable Energy Reviews</i> , <b>2018</b> , 81, 116-135	16.2	36
79	Adaptive current control strategy for harmonic compensation in single-phase solar inverters. <i>Electric Power Systems Research</i> , <b>2017</b> , 142, 84-95	3.5	33
78	Ancillary services provided by photovoltaic inverters: Single and three phase control strategies. <i>Computers and Electrical Engineering</i> , <b>2018</b> , 70, 102-121	4.3	23
77	Low Voltage Ride-Through Capability Solutions for Permanent Magnet Synchronous Wind Generators. <i>Energies</i> , <b>2016</b> , 9, 59	3.1	19
76	Harmonic current prediction by impedance modeling of grid-tied inverters: A 1.4 MW PV plant case study. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2017</b> , 93, 30-38	5.1	18
75	Implementation of fault tolerant control for modular multilevel converter using EtherCAT communication <b>2015</b> ,		18
74	Benchmarking of power control strategies for photovoltaic systems under unbalanced conditions. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2019</b> , 106, 335-345	5.1	17
73	DSCC-MMC STATCOM Main Circuit Parameters Design Considering Positive and Negative Sequence Compensation. <i>Journal of Control, Automation and Electrical Systems</i> , <b>2018</b> , 29, 62-74	1.5	16
72	Design and Selection of High Reliability Converters for Mission Critical Industrial Applications: A Rolling Mill Case Study. <i>IEEE Transactions on Industry Applications</i> , <b>2018</b> , 54, 4938-4947	4.3	14
71	Reliability-Oriented Design of Modular Multilevel Converters for Medium-Voltage STATCOM. <i>IEEE Transactions on Industrial Electronics</i> , <b>2020</b> , 67, 6206-6214	8.9	14
70	Partial Harmonic Current Compensation for Multifunctional Photovoltaic Inverters. <i>IEEE Transactions on Power Electronics</i> , <b>2019</b> , 34, 11868-11879	7.2	13
69	High Performance Simulation Models for ES-STATCOM Based on Modular Multilevel Converters. <i>IEEE Transactions on Energy Conversion</i> , <b>2020</b> , 35, 474-483	5.4	13
68	Flexible harmonic current compensation strategy applied in single and three-phase photovoltaic inverters. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2019</b> , 104, 358-369	5.1	13
67	A grid-connected photovoltaic system with a maximum power point tracker using passivity-based control applied in a boost converter <b>2012</b> ,		13
66	Performance comparison of phase shifted PWM and sorting method for modular multilevel converters <b>2015</b> ,		10

65	Losses and cost comparison of DS-HB and SD-FB MMC based large utility grade STATCOM <b>2016</b> ,		10
64	Power converters for battery energy storage systems connected to medium voltage systems: a comprehensive review. <i>BMC Energy</i> , <b>2019</b> , 1,	6.5	9
63	Comparison of MPPT Strategies in Three-Phase Photovoltaic Inverters Applied for Harmonic Compensation. <i>IEEE Transactions on Industry Applications</i> , <b>2019</b> , 55, 5141-5152	4.3	9
62	On Inherent Redundancy of MMC-Based STATCOMs in the Overmodulation Region. <i>IEEE Transactions on Power Delivery</i> , <b>2020</b> , 35, 1169-1179	4.3	9
61	Design for reliability of multifunctional PV inverters used in industrial power factor regulation. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2020</b> , 119, 105932	5.1	8
60	Modeling, Design and Control of a Solar Array Simulator Based on Two-Stage Converters. <i>Journal of Control, Automation and Electrical Systems</i> , <b>2017</b> , 28, 585-596	1.5	8
59	Lifetime evaluation of three-phase multifunctional PV inverters with reactive power compensation. <i>Electric Power Systems Research</i> , <b>2019</b> , 175, 105873	3.5	7
58	Capacitor voltage balance performance comparison of MMC-STATCOM using NLC and PS-PWM strategies during negative sequence current injection <b>2016</b> ,		7
57	Adaptive saturation scheme for a multifunctional single-phase photovoltaic inverter <b>2014</b> ,		7
56	Minimum Cell Operation Control for Power Loss Reduction in MMC-Based STATCOM. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2021</b> , 9, 1938-1950	5.6	7
55	Adaptive dc-link voltage control strategy to increase PV inverter lifetime. <i>Microelectronics Reliability</i> , <b>2019</b> , 100-101, 113439	1.2	6
54	Comparison of PI and PR current controllers applied on two-level VSC-HVDC transmission system <b>2015</b> ,		6
53	Use of control based on passivity to mitigate the harmonic distortion level of inverters <b>2013</b> ,		6
52	Adaptive saturation for a multifunctional three-phase photovoltaic inverter <b>2015</b> ,		6
51	<b>2015</b> ,		6
50	High Performance Reduced Order Models for Wind Turbines with Full-Scale Converters Applied on Grid Interconnection Studies. <i>Energies</i> , <b>2014</b> , 7, 7694-7716	3.1	6
49	Comparison of solar panel models for grid integrations studies <b>2012</b> ,		6
48	Impact of meteorological variations on the lifetime of grid-connected PV inverters. <i>Microelectronics Reliability</i> , <b>2018</b> , 88-90, 1019-1024	1.2	6

47	Modeling and control of a flexible photovoltaic array simulator <b>2015</b> ,		5
46	MPPT algorithm in single loop current-mode control applied to dc/dc converters with input current source characteristics. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2022</b> , 138, 107909	5.1	5
45	On Converter Fault Tolerance in MMC-HVDC Systems: A Comprehensive Survey. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2020</b> , 1-1	5.6	5
44	Minimum DC-Link Voltage Control for Efficiency and Reliability Improvement in PV Inverters. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 5512-5520	7.2	5
43	Impact of the mission profile length on lifetime prediction of PV inverters. <i>Microelectronics Reliability</i> , <b>2019</b> , 100-101, 113427	1.2	4
42	Current control strategy for reactive and harmonic compensation with dynamic saturation <b>2015</b> ,		4
41	Design of parallel plate electrocoagulation reactors supplied by photovoltaic system applied to water treatment. <i>Computers and Electronics in Agriculture</i> , <b>2020</b> , 177, 105676	6.5	4
40	On lifetime evaluation of medium-voltage drives based on modular multilevel converter. <i>IET Electric Power Applications</i> , <b>2019</b> , 13, 1453-1461	1.8	4
39	Optimum Design of MMC-Based ES-STATCOM Systems: The Role of the Submodule Reference Voltage. <i>IEEE Transactions on Industry Applications</i> , <b>2021</b> , 57, 3064-3076	4.3	4
38	Life consumption of a MMC-STATCOM supporting wind power plants: Impact of the modulation strategies. <i>Microelectronics Reliability</i> , <b>2018</b> , 88-90, 1063-1070	1.2	4
37	Operation Limits of Grid-Tied Photovoltaic Inverters With Harmonic Current Compensation Based on Capability Curves. <i>IEEE Transactions on Energy Conversion</i> , <b>2021</b> , 36, 2088-2098	5.4	4
36	Characterization of solar panel using capacitive load <b>2014</b> ,		3
35	Power flow management in hybrid power system using flatness based control <b>2013</b> ,		3
34	An improved solar array simulator topology based on LCL filter <b>2017</b> ,		3
33	Design and lifetime analysis of a DSCC-MMC STATCOM <b>2017</b> ,		3
32	A novel adaptive current harmonic control strategy applied in multifunctional single-phase solar inverters <b>2015</b> ,		3
31	Modeling and design of a flexible solar array simulator topology <b>2015</b> ,		3
30	Methodology for bondwire lifetime evaluation of multifunctional PV inverter during harmonic current compensation. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2021</b> , 128, 106711	5.1	3

29	Three-phase photovoltaic inverters during unbalanced voltage sags: Comparison of control strategies and thermal stress analysis <b>2016</b> ,		3
28	Comparison of Double Star Topologies of Modular Multilevel Converters in STATCOM Application <b>2018</b> ,		3
27	Benchmarking of capacitor power loss calculation methods for wear-out failure prediction in PV inverters. <i>Microelectronics Reliability</i> , <b>2019</b> , 100-101, 113491	1.2	2
26	LCL filter losses due to harmonic compensation in a photovoltaic system <b>2017</b> ,		2
25	Operating limits of three-phase multifunctional photovoltaic converters applied for harmonic current compensation <b>2017</b> ,		2
24	Comparison of 2L-VSC and MMC-based HVDC Converters: Grid Frequency Support Considering Reduced Wind Power Plants Models. <i>Electric Power Components and Systems</i> , <b>2017</b> , 45, 2007-2016	1	2
23	Reliability-based trade-off analysis of reactive power capability in PV inverters under different sizing ratio. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2022</b> , 136, 107677	5.1	2
22	Comparison of MPPT strategies applied in three-phase photovoltaic inverters during harmonic current compensation <b>2016</b> ,		2
21	Low-Cost Solar Irradiance Meter using LDR Sensors <b>2018</b> ,		2
20	Lifetime evaluation of a multifunctional PV single-phase inverter during harmonic current compensation. <i>Microelectronics Reliability</i> , <b>2018</b> , 88-90, 1071-1076	1.2	2
19	Minimum voltage control for reliability improvement in modular multilevel cascade converters-based STATCOM. <i>Microelectronics Reliability</i> , <b>2020</b> , 110, 113693	1.2	1
18	Redundancy design for modular multilevel converter based STATCOMs. <i>Microelectronics Reliability</i> , <b>2019</b> , 100-101, 113471	1.2	1
17	Influence of PLL in wind parks harmonic emissions <b>2013</b> ,		1
16	Development of a thermal visor to analyze the influence on temperature in the efficiency of a solar panel <b>2013</b> ,		1
15	Novel adaptive saturation scheme for photovoltaic inverters with ancillary service capability <b>2017</b> ,		1
14	Performance comparison of different power modules applied in photovoltaic inverters during harmonic current compensation <b>2017</b> ,		1
13	Comparison of harmonic detection methods applied in a photovoltaic inverter during harmonic current compensation <b>2017</b> ,		1
12	Design of high-reliable converters for medium-voltage rolling mills systems <b>2017</b> ,		1

11	Development of a sun tracker <b>2013</b> ,		1
10	Analysis of Double-Star Modular Multilevel Topologies Applied in HVDC System for Grid Connection of Offshore Wind Power Plants. <i>Journal of Control, Automation and Electrical Systems</i> , <b>2020</b> , 31, 436-446	1.5	1
9	Power losses in photovoltaic inverter components due to reactive power injection <b>2016</b> ,		1
8	Third-Harmonic Current Injection for Wear-out Reduction in Single-Phase PV Inverters. <i>IEEE Transactions on Energy Conversion</i> , <b>2021</b> , 1-1	5.4	1
7	Benchmarking of Single-Stage and Two-Stage Approaches for an MMC-Based BESS. <i>Energies</i> , <b>2022</b> , 15, 3598	3.1	1
6	Pursuing computationally efficient wear-out prediction of PV inverters: The role of the mission profile resolution. <i>Microelectronics Reliability</i> , <b>2020</b> , 110, 113679	1.2	0
5	Wear-out failure analysis of modular multilevel converter-based STATCOM: The role of the modulation strategy and IGBT blocking voltage. <i>Microelectronics Reliability</i> , <b>2022</b> , 128, 114426	1.2	0
4	Detection of Stressed Electronic Components in PV Inverter using Thermal Imaging. <i>IEEE Latin America Transactions</i> , <b>2020</b> , 18, 1760-1767	0.7	
3	Redundancy and Derating Strategies for Modular Multilevel Converter for an Electric Drive. <i>Journal of Control, Automation and Electrical Systems</i> , <b>2020</b> , 31, 339-349	1.5	
2	Next generation of grid-connected photovoltaic systems: modeling and control <b>2021</b> , 509-548		
1	Reconsideration of solar array simulator based on Thévenin equivalent circuit for low-power applications. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2022</b> , 140, 108016	5.1	