

# Allan F Cupertino

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/1637779/allan-f-cupertino-publications-by-citations.pdf>

**Version:** 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

80  
papers

560  
citations

13  
h-index

19  
g-index

102  
ext. papers

823  
ext. citations

3.9  
avg, IF

4.54  
L-index

#	Paper	IF	Citations
80	On the Redundancy Strategies of Modular Multilevel Converters. <i>IEEE Transactions on Power Delivery</i> , <b>2018</b> , 33, 851-860	4.3	37
79	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
78	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
77	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
76	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
75	Low Voltage Ride-Through Capability Solutions for Permanent Magnet Synchronous Wind Generators. <i>Energies</i> , <b>2016</b> , 9, 59	3.1	19
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	An Improved Fault-Tolerant Control Scheme for Cascaded H-Bridge STATCOM With Higher Attainable Balanced Line-to-Line Voltages. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 68, 2784-2797	8.9	16
72	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
71	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
70	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
69	Partial Harmonic Current Compensation for Multifunctional Photovoltaic Inverters. <i>IEEE Transactions on Power Electronics</i> , <b>2019</b> , 34, 11868-11879	7.2	13
68	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
67	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
66	A grid-connected photovoltaic system with a maximum power point tracker using passivity-based control applied in a boost converter <b>2012</b> ,		13
65	Benchmarking of Modular Multilevel Converter Topologies for ES-STATCOM Realization. <i>Energies</i> , <b>2020</b> , 13, 3384	3.1	10
64	Losses and cost comparison of DS-HB and SD-FB MMC based large utility grade STATCOM <b>2016</b> ,		10

63	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
62	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
61	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
60	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
59	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
58	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
57	Power control strategies for grid connected converters applied to full-scale wind energy conversion systems during LVRT operation. <i>Electric Power Systems Research</i> , <b>2020</b> , 184, 106279	3.5	7
56	Capacitor voltage balance performance comparison of MMC-STATCOM using NLC and PS-PWM strategies during negative sequence current injection <b>2016</b> ,		7
55	Adaptive saturation scheme for a multifunctional single-phase photovoltaic inverter <b>2014</b> ,		7
54	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
53	Adaptive dc-link voltage control strategy to increase PV inverter lifetime. <i>Microelectronics Reliability</i> , <b>2019</b> , 100-101, 113439	1.2	6
52	Use of control based on passivity to mitigate the harmonic distortion level of inverters <b>2013</b> ,		6
51	Adaptive saturation for a multifunctional three-phase photovoltaic inverter <b>2015</b> ,		6
50	<b>2015</b> ,		6
49	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
48	Comparison of solar panel models for grid integrations studies <b>2012</b> ,		6
47	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
46	Modeling and control of a flexible photovoltaic array simulator <b>2015</b> ,		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	An improved power regulation method for a three-terminal hybrid AC/DC microgrid during module failure. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2020</b> , 123, 106330	5.1	3
35	Characterization of solar panel using capacitive load <b>2014</b> ,		3
34	Power flow management in hybrid power system using flatness based control <b>2013</b> ,		3
33	An improved solar array simulator topology based on LCL filter <b>2017</b> ,		3
32	Design and lifetime analysis of a DSCC-MMC STATCOM <b>2017</b> ,		3
31	A novel adaptive current harmonic control strategy applied in multifunctional single-phase solar inverters <b>2015</b> ,		3
30	Modeling and design of a flexible solar array simulator topology <b>2015</b> ,		3
29	Interconnection and damping assignment passivity-based control of a PMSG based wind turbine for maximum power tracking <b>2015</b> ,		3
28	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

27	Three-phase photovoltaic inverters during unbalanced voltage sags: Comparison of control strategies and thermal stress analysis <b>2016</b> ,		3
26	Comparison of Double Star Topologies of Modular Multilevel Converters in STATCOM Application <b>2018</b> ,		3
25	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
24	LCL filter losses due to harmonic compensation in a photovoltaic system <b>2017</b> ,		2
23	Operating limits of three-phase multifunctional photovoltaic converters applied for harmonic current compensation <b>2017</b> ,		2
22	Interconnection and damping assignment passivity-based control of a PMSG based wind turbine <b>2015</b> ,		2
21	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
20	Comparison of MPPT strategies applied in three-phase photovoltaic inverters during harmonic current compensation <b>2016</b> ,		2
19	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
18	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
17	Redundancy design for modular multilevel converter based STATCOMs. <i>Microelectronics Reliability</i> , <b>2019</b> , 100-101, 113471	1.2	1
16	Influence of PLL in wind parks harmonic emissions <b>2013</b> ,		1
15	IGBT power modules lifetime in 2-level pv-inverters under harsh environmental conditions <b>2017</b> ,		1
14	Novel adaptive saturation scheme for photovoltaic inverters with ancillary service capability <b>2017</b> ,		1
13	Performance comparison of different power modules applied in photovoltaic inverters during harmonic current compensation <b>2017</b> ,		1
12	Comparison of harmonic detection methods applied in a photovoltaic inverter during harmonic current compensation <b>2017</b> ,		1
11	Design of high-reliable converters for medium-voltage rolling mills systems <b>2017</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 Injection Method for Reliability Improvement of Single-Phase PV Inverters <b>2019</b> ,		1
7	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
6	Benchmarking of Single-Stage and Two-Stage Approaches for an MMC-Based BESS. <i>Energies</i> , <b>2022</b> , 15, 3598	3.1	1
5	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
4	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
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	