

Ariya Sangwongwanich

List of Publications by Year in descending order

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1505
citing authors

#	ARTICLE	IF	CITATIONS
1	Capacitor Voltage Balancing for Multilevel Dual-Active-Bridge DC-DC Converters. IEEE Transactions on Industrial Electronics, 2023, 70, 2566-2575.	7.9	7
2	Flexible Active Power Control of Distributed Photovoltaic Systems With Integrated Battery Using Series Converter Configurations. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 6891-6909.	5.4	7
3	Design and Implementation of a Single-Source 17-Level Inverter for a Single-Phase Transformer-Less Grid-Connected Photovoltaic Systems. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 4469-4485.	5.4	18
4	A Comprehensive Review on Supercapacitor Applications and Developments. Energies, 2022, 15, 674.	3.1	161
5	Reliability aspects in microgrid design and planning: Status and power electronics-induced challenges. Renewable and Sustainable Energy Reviews, 2022, 159, 112127.	16.4	58
6	Reliability analysis of battery energy storage system for various stationary applications. Journal of Energy Storage, 2022, 50, 104217.	8.1	14
7	Incremental Degradation Estimation Method for Online Assessment of Battery Operation Cost. IEEE Transactions on Power Electronics, 2022, 37, 11497-11501.	7.9	10
8	Reliability of DC-link Capacitors in Three-Level NPC Inverters under different PWM Methods. , 2022, , .		8
9	Reliability Assessment of Fault-Tolerant Power Converters including Wear-Out Failure. , 2022, , .		3
10	Neutral Point Voltage Balancing Control Based on Adjusting Application Times of Redundant Vectors for Three-Level NPC Inverter. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 5604-5613.	5.4	18
11	Double-Carrier-Based PWM Theory for Independent Power Control of Dual-Input Three-level Inverters. , 2022, , .		2
12	Online Optimization of Zero-Sequence Voltage Injection of PWM Strategy for 3L-NPC converters. , 2022, , .		1
13	Long-Term Forecasting Method for Power Electronics-Based System Design. , 2022, , .		0
14	Grid Congestion Mitigation and Battery Degradation Minimisation Using Model Predictive Control in PV-Based Microgrid. IEEE Transactions on Energy Conversion, 2021, 36, 1500-1509.	5.2	18
15	Capacitor Selection Method in PV Interfaced Converter Suitable for Maximum Power Point Tracking. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 2136-2146.	5.4	11
16	A Phase-Shifting MPPT to Mitigate Interharmonics From Cascaded H-Bridge PV Inverters. IEEE Transactions on Industry Applications, 2021, 57, 3052-3063.	4.9	22
17	The Impact of PV Panel Positioning and Degradation on the PV Inverter Lifetime and Reliability. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 3114-3126.	5.4	34
18	Lifetime Evaluation of Three-Level Inverters for 1500-V Photovoltaic Systems. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 4285-4298.	5.4	26

#	ARTICLE	IF	CITATIONS
19	Design for Accelerated Testing of DC-Link Capacitors in Photovoltaic Inverters Based on Mission Profiles. IEEE Transactions on Industry Applications, 2021, 57, 741-753.	4.9	14
20	Monte Carlo-Based Reliability Estimation Methods for Power Devices in Power Electronics Systems. IEEE Open Journal of Power Electronics, 2021, 2, 523-534.	5.7	20
21	Advanced power control of photovoltaic systems. , 2021, , 447-469.		1
22	Advancing Grid-Connected Renewable Generation Systems. Applied Sciences (Switzerland), 2021, 11, 3058.	2.5	0
23	Enhanced Reliability of 1500-V Photovoltaic Inverters with Junction Temperature Limit Control. , 2021, , .		5
24	Flexible Power Control of Distributed Grid-Connected Series-Photovoltaic-Battery Systems. , 2021, , .		4
25	Performance Comparison of PV Inverter Systems Considering System Voltage Ratings and Installation Sites. , 2021, , .		1
26	Monte Carlo Simulation With Incremental Damage for Reliability Assessment of Power Electronics. IEEE Transactions on Power Electronics, 2021, 36, 7366-7371.	7.9	27
27	Distributed Control of Islanded Series PV-Battery-Hybrid Systems With Low Communication Burden. IEEE Transactions on Power Electronics, 2021, 36, 10199-10213.	7.9	17
28	An Analysis of Multi Objective Energy Scheduling in PV-BESS System Under Prediction Uncertainty. IEEE Transactions on Energy Conversion, 2021, 36, 2276-2286.	5.2	19
29	Optimization of Reactive Power Distribution in Series PV-Battery-Hybrid Systems. , 2021, , .		0
30	Multi-Converter System Modelling in Cost for Reliability Studies. , 2021, , .		0
31	Mission Profile-Oriented Control for Reliability and Lifetime of Photovoltaic Inverters. IEEE Transactions on Industry Applications, 2020, 56, 601-610.	4.9	58
32	Validation of Thermal Stress Modeling in PV Inverters under Mission Profile Operation. , 2020, , .		0
33	Effects of PV Panel and Battery Degradation on PV-Battery System Performance and Economic Profitability. , 2020, , .		4
34	Reduced-Order Thermal Modeling for Photovoltaic Inverters Considering Mission Profile Dynamics. IEEE Open Journal of Power Electronics, 2020, 1, 407-419.	5.7	10
35	Robustness Evaluation of PV-Battery Sizing Principle Under Mission Profile Variations. , 2020, , .		2
36	A Phase-Shifting MPPT Method to Mitigate Interharmonics from Cascaded H-Bridge PV Inverters. , 2020, , .		7

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37	Lifetime Evaluation of Power Modules for Three-Level 1500-V Photovoltaic Inverters. , 2020, , .		6
38	A Dual-Loop Control to Ensure Fast and Stable Fault-Tolerant Operation of Series Resonant DAB Converters. IEEE Transactions on Power Electronics, 2020, 35, 10994-11012.	7.9	17
39	Grid-friendly power control for smart photovoltaic systems. Solar Energy, 2020, 210, 115-127.	6.1	32
40	A Series Interharmonic Filter for Cascaded H-bridge PV Inverters. , 2020, , .		5
41	Reliability Analysis and Energy Yield of String-Inverter Considering Monofacial and Bifacial Photovoltaic Panels. , 2020, , .		4
42	Extended Functionalities of Photovoltaic Systems With Flexible Power Point Tracking: Recent Advances. IEEE Transactions on Power Electronics, 2020, 35, 9342-9356.	7.9	91
43	Impact of Mission Profile Dynamics on Accuracy of Thermal Stress Modeling in PV Inverters. , 2020, , .		2
44	Monte Carlo Based Reliability Estimation Methods in Power Electronics. , 2020, , .		4
45	Impact of Power Converters and Battery Lifetime on Return of Investment of Photovoltaic Systems. , 2020, , .		3
46	A Random Sampling-Rate MPPT Method to Mitigate Interharmonics from Cascaded H-Bridge Photovoltaic Inverters. , 2020, , .		3
47	The Impact of PV array Inclination on the PV Inverter Reliability and Lifetime. , 2020, , .		4
48	An Overview of Photovoltaic Microinverters: Topology, Efficiency, and Reliability. , 2019, , .		28
49	Reliability Evaluation of PV Systems with Integrated Battery Energy Storage Systems: DC-Coupled and AC-Coupled Configurations. Electronics (Switzerland), 2019, 8, 1059.	3.1	40
50	Mission Profile-based Accelerated Testing of DC-link Capacitors in Photovoltaic Inverters. , 2019, , .		6
51	Mitigation of Interharmonics in PV Systems With Maximum Power Point Tracking Modification. IEEE Transactions on Power Electronics, 2019, 34, 8279-8282.	7.9	101
52	Lifetime Estimation and Reliability of PV Inverter With Multi-Timescale Thermal Stress Analysis. , 2019, , .		5
53	A Comparative Study of Flexible Power Point Tracking Algorithms in Photovoltaic Systems. , 2019, , .		6
54	Thermal Performance Evaluation of 1500-VDC Photovoltaic Inverters Under Constant Power Generation Operation. , 2019, , .		7

#	ARTICLE	IF	CITATIONS
55	A Systematic Approach for Lifetime Evaluation of PV-Battery Systems. , 2019, , .		8
56	Interharmonics Reduction in Photovoltaic Systems with Random Sampling MPPT Technique. , 2019, , .		5
57	Low-Frequency Oscillation Suppression in Series Resonant Dual-Active-Bridge Converters under Fault Tolerant Operation. , 2019, , .		1
58	Power electronic technologies for PV systems. , 2019, , 15-43.		8
59	Flexible active power control of PV systems. , 2019, , 153-185.		3
60	An Adaptive Control Scheme for Flexible Power Point Tracking in Photovoltaic Systems. IEEE Transactions on Power Electronics, 2019, 34, 5451-5463.	7.9	93
61	Reliability of DC-link Capacitors in Two-Stage Micro-Inverters Under Different PV Module Sizes. , 2019, , .		2
62	Flexible Power Control of Photovoltaic Systems. , 2018, , 207-229.		5
63	Analysis and Modeling of Interharmonics From Grid-Connected Photovoltaic Systems. IEEE Transactions on Power Electronics, 2018, 33, 8353-8364.	7.9	83
64	A general algorithm for flexible active power control of photovoltaic systems. , 2018, , .		8
65	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
66	Lifetime Evaluation of Grid-Connected PV Inverters Considering Panel Degradation Rates and Installation Sites. IEEE Transactions on Power Electronics, 2018, 33, 1225-1236.	7.9	152
67	Benchmarking of Constant Power Generation Strategies for Single-Phase Grid-Connected Photovoltaic Systems. IEEE Transactions on Industry Applications, 2018, 54, 447-457.	4.9	96
68	Wear-Out Failure Analysis of Solar Optiverter Operating with 60- and 72-Cell Si Crystalline PV Modules. , 2018, , .		3
69	Reliability Assessment of PV Inverters with Battery Systems Considering PV Self-Consumption and Battery Sizing. , 2018, , .		5
70	Mission Profile-Oriented Control for Reliability and Lifetime of Photovoltaic Inverters. , 2018, , .		3
71	Design for Reliability of Power Electronic Systems. , 2018, , 1423-1440.		38
72	Enhancing PV Inverter Reliability With Battery System Control Strategy. CPSS Transactions on Power Electronics and Applications, 2018, 3, 93-101.	4.4	36

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73	Photovoltaic module characteristic influence on reliability of micro-inverters. , 2018, , .		2
74	A Sensorless Power Reserve Control Strategy for Two-Stage Grid-Connected PV Systems. IEEE Transactions on Power Electronics, 2017, 32, 8559-8569.	7.9	142
75	Delta Power Control Strategy for Multistring Grid-Connected PV Inverters. IEEE Transactions on Industry Applications, 2017, 53, 3862-3870.	4.9	117
76	Low voltage ride-through of two-stage grid-connected photovoltaic systems through the inherent linear power-voltage characteristic. , 2017, , .		15
77	Lifetime evaluation of PV inverters considering panel degradation rates and installation sites. , 2017, , .		6
78	Development of flexible active power control strategies for grid-connected photovoltaic inverters by modifying MPPT algorithms. , 2017, , .		37
79	Interharmonics from grid-connected PV systems: Mechanism and mitigation. , 2017, , .		23
80	Pursuing Photovoltaic Cost-Effectiveness: Absolute Active Power Control Offers Hope in Single-Phase PV Systems. IEEE Industry Applications Magazine, 2017, 23, 40-49.	0.4	31
81	Impacts of PV array sizing on PV inverter lifetime and reliability. , 2017, , .		14
82	Design for reliability in renewable energy systems. , 2017, , .		8
83	Two-dimension sorting and selection algorithm featuring thermal balancing control for modular multilevel converters. , 2016, , .		12
84	A cost-effective power ramp-rate control strategy for single-phase two-stage grid-connected photovoltaic systems. , 2016, , .		30
85	Delta power control strategy for multi-string grid-connected PV inverters. , 2016, , .		10
86	Benchmarking of constant power generation strategies for single-phase grid-connected Photovoltaic systems. , 2016, , .		18
87	Sensorless reserved power control strategy for two-stage grid-connected Photovoltaic systems. , 2016, , .		16
88	Capacitor voltage balance performance comparison of MMC-STATCOM using NLC and PS-PWM strategies during negative sequence current injection. , 2016, , .		10
89	Design for Reliability of Power Electronics for Grid-Connected Photovoltaic Systems. CPSS Transactions on Power Electronics and Applications, 2016, 1, 92-103.	4.4	106
90	High-Performance Constant Power Generation in Grid-Connected PV Systems. IEEE Transactions on Power Electronics, 2016, 31, 1822-1825.	7.9	208

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91	Performance comparison of phase shifted PWM and sorting method for modular multilevel converters. , 2015, , .		17
92	Implementation of fault tolerant control for modular multilevel converter using EtherCAT communication. , 2015, , .		26
93	Minimizing the levelized cost of energy in single-phase photovoltaic systems with an absolute active power control. , 2015, , .		9