

Glen G Farivar

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Extended Functionalities of Photovoltaic Systems With Flexible Power Point Tracking: Recent Advances. IEEE Transactions on Power Electronics, 2020, 35, 9342-9356.	5.4	91
2	Low-Capacitance Cascaded H-Bridge Multilevel StatCom. IEEE Transactions on Power Electronics, 2017, 32, 1744-1754.	5.4	86
3	Capacitor Voltages Measurement and Balancing in Flying Capacitor Multilevel Converters Utilizing a Single Voltage Sensor. IEEE Transactions on Power Electronics, 2017, 32, 8115-8123.	5.4	40
4	Incremental Passivity Control in Multilevel Cascaded H-Bridge Converters. IEEE Transactions on Power Electronics, 2020, 35, 8766-8778.	5.4	39
5	Analytical Derivation of Intersubmodule Active Power Disparity Limits in Modular Multilevel Converter-Based Battery Energy Storage Systems. IEEE Transactions on Power Electronics, 2021, 36, 2864-2874.	5.4	37
6	Grid-Connected Energy Storage Systems: State-of-the-Art and Emerging Technologies. Proceedings of the IEEE, 2023, 111, 397-420.	16.4	37
7	Passive Reactor Compensated Cascaded H-Bridge Multilevel LC-StatCom. IEEE Transactions on Power Electronics, 2017, 32, 8338-8348.	5.4	35
8	Flexible Power Point Tracking for Solar Photovoltaic Systems Using Secant Method. IEEE Transactions on Power Electronics, 2021, 36, 9419-9429.	5.4	32
9	Minimizing Energy Storage Utilization in a Stand-Alone DC Microgrid Using Photovoltaic Flexible Power Control. IEEE Transactions on Smart Grid, 2021, 12, 3755-3764.	6.2	29
10	Control of Distributed Photovoltaic Inverters for Frequency Support and System Recovery. IEEE Transactions on Power Electronics, 2022, 37, 4742-4750.	5.4	29
11	Low-Capacitance StatCom With Modular Inductive Filter. IEEE Transactions on Power Electronics, 2019, 34, 3192-3203.	5.4	24
12	Closed-Loop Analytic Filtering Scheme of Capacitor Voltage Ripple in Multilevel Cascaded H-Bridge Converters. IEEE Transactions on Power Electronics, 2020, 35, 8819-8832.	5.4	21
13	An Enhanced Static Compensator With DC-Link Voltage Shaping Method. IEEE Transactions on Power Electronics, 2020, 35, 2488-2500.	5.4	19
14	An Algorithm for Fast Flexible Power Point Tracking in Photovoltaic Power Plants. , 2019, , .		17
15	Enhancing Inductive Operation of Low-Capacitance Cascaded H-Bridge StatComs Using Optimal Third-Harmonic Circulating Current. IEEE Transactions on Power Electronics, 2021, 36, 10788-10800.	5.4	17
16	A Control Strategy for Dual-Input Neutral-Point-Clamped Inverter-Based Grid-Connected Photovoltaic System. IEEE Transactions on Power Electronics, 2021, 36, 9743-9757.	5.4	17
17	A Constrained Intersubmodule State-of-Charge Balancing Method for Battery Energy Storage Systems Based on the Cascaded H-Bridge Converter. IEEE Transactions on Power Electronics, 2022, 37, 12669-12678.	5.4	16
18	LC-StatCom with symmetrical I-V characteristic: Total Harmonic Distortion Study. , 2017, , .		15

#	ARTICLE	IF	CITATIONS
19	Band-Limited Three-Level Modulation for Balancing Capacitor Voltages in Neutral-Point-Clamped Converters. IEEE Transactions on Power Electronics, 2020, 35, 9737-9752.	5.4	15
20	Cascaded H-Bridge Low Capacitance Static Compensator With Modular Switched Capacitors. IEEE Transactions on Industrial Electronics, 2021, 68, 5944-5954.	5.2	15
21	Identifying Circulating Currents and Zero-Sequence Voltages for Reduction in Stored Capacitor Energy in Modular Multilevel Converters. IEEE Transactions on Industrial Electronics, 2021, 68, 454-465.	5.2	13
22	Discontinuous Modulation of a Cascaded H-Bridge Low-Capacitance StatCom. IEEE Transactions on Power Electronics, 2022, 37, 2790-2800.	5.4	13
23	Effect of Capacitor Voltage Ripples on Submodule Active Power Control Limits of Cascaded Multilevel Converters. IEEE Transactions on Industrial Electronics, 2022, 69, 5952-5961.	5.2	13
24	LC-StatCom with symmetrical I-V characteristic " Power loss analysis. , 2017, , .		12
25	Feedforward Modulation for the Neutral-Point-Clamped Converter With Confined Capacitor Voltage Ripples and Reduced Switching Power Losses. IEEE Transactions on Power Electronics, 2020, 35, 4426-4438.	5.4	11
26	A Dual-Mode Modulation Technique for Controlling the Average Neutral Point Current in Neutral-Point-Clamped Converters. IEEE Transactions on Power Electronics, 2021, 36, 6079-6091.	5.4	10
27	Unbalanced Active Power Distribution of Cascaded Multilevel Converter-Based Battery Energy Storage Systems. IEEE Transactions on Industrial Electronics, 2022, 69, 13022-13032.	5.2	10
28	Adaptive Filtering Scheme for a Low-Capacitance StatCom. , 2018, , .		9
29	Reduced Battery Usage in a Hybrid Battery and Photovoltaic Stand-Alone DC Microgrid with Flexible Power Point Tracking. , 2020, , .		9
30	Operating Limits for Low-Capacitance Cascaded H-Bridge Static Compensators. IEEE Transactions on Power Electronics, 2022, 37, 3421-3433.	5.4	9
31	Capacitor Condition Monitoring Based on an Adaptive Observer of the Low-Frequency Capacitor Voltage Ripples for Modular Multilevel Converters. , 2019, , .		8
32	Capacitor Condition Monitoring for the Low-Capacitance StatCom: An Online Approach. IEEE Transactions on Power Electronics, 2022, 37, 3697-3701.	5.4	8
33	Constrained Control of Low-Capacitance Delta Cascaded H-Bridge StatComs: A Model Predictive Control Approach. IEEE Transactions on Power Electronics, 2021, 36, 14312-14328.	5.4	6
34	Comparative Analysis of Flexible Power Point Tracking Algorithms in Photovoltaic Systems. , 2020, , .		6
35	Control Scheme for LLC Resonant Converter with Improved Performance Under Light Loads and Wide Input-Output Voltage Variation. , 2019, , .		5
36	Analysis of the Inter-Submodule Active Power Disparity Limits of Modular Multilevel Converter-Based Battery Energy Storage Systems. , 2020, , .		5

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37	Capacitor Voltage Shaper for Cascaded H-Bridge StatCom. , 2018, , .		4
38	Battery Fault Tolerance of Modular Multilevel Converter-Based Battery Energy Storage Systems with Redundant Submodules. , 2021, , .		4
39	Comparative Study of Coordinated Photovoltaic and Battery Control Strategies on the Battery Lifetime in Stand-Alone DC Microgrids. , 2021, , .		4
40	Operation of the Low-Capacitance Cascaded H-Bridge StatCom Under Grid Voltage Swells. IEEE Transactions on Power Electronics, 2022, 37, 12552-12562.	5.4	4
41	Load Adaptive Cascaded H-Bridge Low Capacitance StatCom with Modular Capacitors. , 2019, , .		3
42	Simplified Hybrid Control Strategy for Stand-Alone DC Microgrid with Photovoltaic System to Extend Battery Lifespan. , 2021, , .		3
43	Discontinuous Modulation of Cascaded H-Bridge StatComs Considering Capacitor Voltage Oscillations. , 2021, , .		3
44	Dual-Layer Pulsewidth Modulation Technique for Average Neutral Point Current Control in Neutral-Point-Clamped Converters. IEEE Transactions on Power Electronics, 2022, 37, 11762-11773.	5.4	3
45	Low-Capacitance StatCom with Thyristor Switched Filter Inductor. , 2018, , .		2
46	Low Capacitance StatCom Capacitor Lifetime and Current Stress Analysis. , 2019, , .		2
47	Flexible Power Point Tracking in Cascaded H-Bridge Converter-Based Photovoltaic Systems. , 2020, , .		2
48	Analytic Spectral Analysis Technique for Converters Operating With Oscillatory DC-Link Voltage Components. IEEE Transactions on Power Electronics, 2020, 35, 13540-13553.	5.4	2
49	Flexible Power Point Tracking Algorithm for Photovoltaic Systems Using the Newton's Method. , 2021, , .		2
50	A Comparison of the Battery Fault Tolerance of Modular Multilevel Converters with Half-Bridge and Full-Bridge Submodules. , 2021, , .		2
51	Passivity Control in Multilevel Cascaded H-Bridge Converters: A Variable Gain Approach. , 2019, , .		1
52	Modular Switched Capacitor Application in Low Capacitance Static Compensator. , 2019, , .		1
53	A Generalized Voltage Balancing Algorithm for Modular Multilevel Cascaded Converters. , 2019, , .		1
54	Balancing Average Capacitor Voltages in Neutral-Point-Clamped Converters Using Band-Limited Three-Level Modulation. , 2019, , .		1

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55	Operation of Cascaded H-bridge-Based Split-Battery Energy Storage System With Reduced Sensors. , 2021, , .		1
56	Inductive Operation of the Low-Capacitance StatCom Using Modular Filter Inductor. , 2021, , .		1
57	Analysis of the Average Neutral-Point Current Limits of the Neutral-Point-Clamped Converter Under Three-Level Modulation. , 2020, , .		1
58	Fault Operating Condition of Modular Multilevel Converter-Based HVDC Using Lyapunov Method Compensators. , 2020, , .		1
59	Average Neutral Point Current Control Strategy in Neutral-Point-Clamped Converters. , 2021, , .		0
60	Study of Some Operational Degrees of Freedom for Cascaded AC-DC Converters in Solid State Transformer. , 2019, , .		0
61	Passivity Control in Modular Battery Energy Storage Systems. , 2021, , .		0
62	Control Strategy for Effective Battery Utilization in a Stand-Alone DC Microgrid with Solar Energy. , 2021, , .		0
63	Effect of Zero-Sequence Voltage on the Maximum Average Neutral-Point Current Limit of Neutral-Point-Clamped Converters. , 2021, , .		0