Glen G Farivar

List of Publications by Year
in descending order

63	826	516215 16	552369 26
papers	citations	h-index	g-index

63	63	63	463
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Grid-Connected Energy Storage Systems: State-of-the-Art and Emerging Technologies. Proceedings of the IEEE, 2023, 111, 397-420.	16.4	37
2	Operating Limits for Low-Capacitance Cascaded H-Bridge Static Compensators. IEEE Transactions on Power Electronics, 2022, 37, 3421-3433.	5.4	9
3	Discontinuous Modulation of a Cascaded H-Bridge Low-Capacitance StatCom. IEEE Transactions on Power Electronics, 2022, 37, 2790-2800.	5.4	13
4	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
5	Capacitor Condition Monitoring for the Low-Capacitance StatCom: An Online Approach. IEEE Transactions on Power Electronics, 2022, 37, 3697-3701.	5.4	8
6	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
7	Control of Distributed Photovoltaic Inverters for Frequency Support and System Recovery. IEEE Transactions on Power Electronics, 2022, 37, 4742-4750.	5.4	29
8	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
9	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
10	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
11	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
12	Cascaded H-Bridge Low Capacitance Static Compensator With Modular Switched Capacitors. IEEE Transactions on Industrial Electronics, 2021, 68, 5944-5954.	5.2	15
13	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
14	Operation of Cascaded H-bridge-Based Split-Battery Energy Storage System With Reduced Sensors. , 2021, , .		1
15	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
16	Simplified Hybrid Control Strategy for Stand-Alone DC Microgrid with Photovoltaic System to Extend Battery Lifespan. , 2021, , .		3
17	Average Neutral Point Current Control Strategy in Neutral-Point-Clamped Converters. , 2021, , .		0
18	Flexible Power Point Tracking for Solar Photovoltaic Systems Using Secant Method. IEEE Transactions on Power Electronics, 2021, 36, 9419-9429.	5.4	32

#	Article	IF	Citations
19	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
20	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
21	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
22	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
23	Battery Fault Tolerance of Modular Multilevel Converter-Based Battery Energy Storage Systems with Redundant Submodules. , 2021, , .		4
24	Flexible Power Point Tracking Algorithm for Photovoltaic Systems Using the Newtonâ€™s Method. , 2021, , .		2
25	Passivity Control in Modular Battery Energy Storage Systems. , 2021, , .		0
26	A Comparison of the Battery Fault Tolerance of Modular Multilevel Converters with Half-Bridge and Full-Bridge Submodules. , 2021, , .		2
27	Inductive Operation of the Low-Capacitance StatCom Using Modular Filter Inductor. , 2021, , .		1
28	Comparative Study of Coordinated Photovoltaic and Battery Control Strategies on the Battery Lifetime in Stand-Alone DC Microgrids. , 2021, , .		4
29	Control Strategy for Effective Battery Utilization in a Stand-Alone DC Microgrid with Solar Energy. , 2021, , .		0
30	Discontinuous Modulation of Cascaded H-Bridge StatComs Considering Capacitor Voltage Oscillations. , 2021, , .		3
31	Effect of Zero-Sequence Voltage on the Maximum Average Neutral-Point Current Limit of Neutral-Point-Clamped Converters. , 2021, , .		0
32	An Enhanced Static Compensator With DC-Link Voltage Shaping Method. IEEE Transactions on Power Electronics, 2020, 35, 2488-2500.	5.4	19
33	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
34	Reduced Battery Usage in a Hybrid Battery and Photovoltaic Stand-Alone DC Microgrid with Flexible Power Point Tracking. , 2020, , .		9
35	Flexible Power Point Tracking in Cascaded H-Bridge Converter-Based Photovoltaic Systems. , 2020, , .		2
36	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

#	Article	IF	Citations
37	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
38	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
39	Incremental Passivity Control in Multilevel Cascaded H-Bridge Converters. IEEE Transactions on Power Electronics, 2020, 35, 8766-8778.	5.4	39
40	Extended Functionalities of Photovoltaic Systems With Flexible Power Point Tracking: Recent Advances. IEEE Transactions on Power Electronics, 2020, 35, 9342-9356.	5.4	91
41	Analysis of the Average Neutral-Point Current Limits of the Neutral-Point-Clamped Converter Under Three-Level Modulation. , 2020, , .		1
42	Fault Operating Condition of Modular Multilevel Converter-Based HVDC Using Lyapunov Method Compensators. , 2020, , .		1
43	Comparative Analysis of Flexible Power Point Tracking Algorithms in Photovoltaic Systems. , 2020, , .		6
44	Analysis of the Inter-Submodule Active Power Disparity Limits of Modular Multilevel Converter-Based Battery Energy Storage Systems. , 2020, , .		5
45	Low-Capacitance StatCom With Modular Inductive Filter. IEEE Transactions on Power Electronics, 2019, 34, 3192-3203.	5.4	24
46	Low Capacitance StatCom Capacitor Lifetime and Current Stress Analysis. , 2019, , .		2
47	Capacitor Condition Monitoring Based on an Adaptive Observer of the Low-Frequency Capacitor Voltage Ripples for Modular Multilevel Converters. , 2019, , .		8
48	An Algorithm for Fast Flexible Power Point Tracking in Photovoltaic Power Plants. , 2019, , .		17
49	Load Adaptive Cascaded H-Bridge Low Capacitance StatCom with Modular Capacitors. , 2019, , .		3
50	Passivity Control in Multilevel Cascaded H-Bridge Converters: A Variable Gain Approach. , 2019, , .		1
51	Modular Switched Capacitor Application in Low Capacitance Static Compensator. , 2019, , .		1
52	A Generalized Voltage Balancing Algorithm for Modular Multilevel Cascaded Converters. , 2019, , .		1
53	Control Scheme for LLC Resonant Converter with Improved Performance Under Light Loads and Wide Input-Output Voltage Variation. , 2019, , .		5
54	Balancing Average Capacitor Voltages in Neutral-Point-Clamped Converters Using Band-Limited Three-Level Modulation. , 2019, , .		1

#	Article	IF	Citations
55	Study of Some Operational Degrees of Freedom for Cascaded AC-DC Converters in Solid State Transformer. , 2019, , .		0
56	Adaptive Filtering Scheme for a Low-Capacitance StatCom. , 2018, , .		9
57	Capacitor Voltage Shaper for Cascaded H-Bridge StatCom. , 2018, , .		4
58	Low-Capacitance StatCom with Thyristor Switched Filter Inductor. , 2018, , .		2
59	Low-Capacitance Cascaded H-Bridge Multilevel StatCom. IEEE Transactions on Power Electronics, 2017, 32, 1744-1754.	5.4	86
60	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
61	Passive Reactor Compensated Cascaded H-Bridge Multilevel LC-StatCom. IEEE Transactions on Power Electronics, 2017, 32, 8338-8348.	5.4	35
62	LC-StatCom with symmetrical I-V characteristic â€" Power loss analysis. , 2017, , .		12
63	LC-StatCom with symmetrical I-V characteristic: Total Harmonic Distortion Study. , 2017, , .		15