

# Vahid Dargahi

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Analytical Determination of Conduction and Switching Power Losses in Flying-Capacitor-Based Active Neutral-Point-Clamped Multilevel Converter. IEEE Transactions on Power Electronics, 2016, 31, 5473-5494.	7.9	96
2	New Active Capacitor Voltage Balancing Method for Flying Capacitor Multicell Converter Based on Logic-Form-Equations. IEEE Transactions on Industrial Electronics, 2017, 64, 3467-3478.	7.9	62
3	A New Breed of Optimized Symmetrical and Asymmetrical Cascaded Multilevel Power Converters. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2015, 3, 1160-1170.	5.4	50
4	New Flying-Capacitor-Based Multilevel Converter With Optimized Number of Switches and Capacitors for Renewable Energy Integration. IEEE Transactions on Energy Conversion, 2016, 31, 846-859.	5.2	47
5	New Multilevel Converter Based on Cascade Connection of Double Flying Capacitor Multicell Converters and Its Improved Modulation Technique. IEEE Transactions on Power Electronics, 2015, 30, 6568-6580.	7.9	35
6	Flying-capacitor stacked multicell multilevel voltage source inverters: analysis and modelling. IET Power Electronics, 2014, 7, 2969-2987.	2.1	33
7	Fundamental Circuit Topology of Duo-Active-Neutral-Point-Clamped, Duo-Neutral-Point-Clamped, and Duo-Neutral-Point-Piloted Multilevel Converters. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 1224-1242.	5.4	27
8	Investigation of Conduction and Switching Power Losses in Modified Stacked Multicell Converters. IEEE Transactions on Industrial Electronics, 2016, 63, 7780-7791.	7.9	26
9	Hybrid double flying capacitor multicell converter and its application in grid-tied renewable energy resources. IET Generation, Transmission and Distribution, 2015, 9, 947-956.	2.5	22
10	Analytical determination of conduction power loss and investigation of switching power loss for modified flying capacitor multicell converters. IET Power Electronics, 2016, 9, 175-187.	2.1	19
11	Logic-Form-Equation-Based Active Capacitor Voltage Balancing Control Technique for Stacked Multicell Converters. IEEE Transactions on Industrial Electronics, 2017, 64, 3456-3466.	7.9	18
12	A New Control Technique for Improved Active-Neutral-Point-Clamped (I-ANPC) Multilevel Converters Using Logic-Equations Approach. IEEE Transactions on Industry Applications, 2020, 56, 488-497.	4.9	18
13	Simple Active Capacitor Voltage Balancing Method Without Cost Function Optimization for Seven-Level Full-Bridge Flying-Capacitor-Multicell Inverters. IEEE Transactions on Industry Applications, 2021, 57, 1629-1643.	4.9	12
14	Active Voltage Balancing Control of a Seven-Level Hybrid Multilevel Converter Topology. IEEE Transactions on Industrial Electronics, 2022, 69, 74-89.	7.9	10
15	Enhanced double flying capacitor multicell power converter controlled with a new switching pattern. IET Power Electronics, 2015, 8, 2386-2395.	2.1	9
16	Analytical determination of conduction power losses for active neutral-point-clamped multilevel converter. , 2016, , .		8
17	Fast Newton-Raphson Power Flow Analysis Based on Sparse Techniques and Parallel Processing. IEEE Transactions on Power Systems, 2022, 37, 1695-1705.	6.5	8
18	Improved active-neutral-point-clamped (I-ANPC) multilevel converter: Fundamental circuit topology, innovative modulation technique, and experimental validation. , 2018, , .		7

#	ARTICLE	IF	CITATIONS
19	New flying-capacitor-based multilevel converter with optimized number of switches and capacitors controlled with a new logic-form-equation based active voltage balancing technique. , 2016, , .		6
20	Duo-active-neutral-point-clamped multilevel converter: An exploration of the fundamental topology and experimental verification. , 2018, , .		6
21	Analytical determination of conduction losses for modified flying capacitor multicell converters. , 2016, , .		5
22	Calculation of conduction power losses in double flying capacitor multicell converter. , 2015, , .		4
23	Selective harmonic elimination for extended cascaded multicell multilevel power converters. , 2015, , .		4
24	DSP-based digital control of a set of phase-shifted full-bridge DC-DC converters. , 2015, , .		3
25	Active voltage balancing of five-level H-bridge flying capacitor multicell converter controlled with level-shifted-carrier PWM. , 2015, , .		3
26	New active capacitor voltage balancing method for five-level stacked multicell converter. , 2016, , .		3
27	Medium voltage dynamic voltage restorer (DVR) based on DFCM converter for power quality improvement. , 2016, , .		3
28	Analytical Approach to Calculate Inductor Current Ripple Cancellation in Two-Phase Interleaved Single-phase Inverter. , 2020, , .		3
29	Dynamic Voltage Restorer Controlled with Energy Minimized Compensation Method Based on Double Flying Capacitor Multicell Inverter. , 2020, , .		3
30	Power Loss Modeling and Thermal Comparison of SiC-MOSFET-Based 2-level Inverter and 3-level Flying Capacitor Multicell Inverter. , 2021, , .		3
31	Hybrid double flying capacitor multicell converter for renewable energy integration. , 2015, , .		2
32	New configuration of dynamic voltage restorer for medium voltage application. , 2016, , .		2
33	Flying-Capacitor Voltage-Balancing Control in Five-Level Active Neutral-Point-Clamped (A-NPC) Converters Using Phase-Disposition PWM. , 2020, , .		2
34	Closed-form equations for analytical exploration and comparison of switching power losses in flying capacitor multicell and active neutral-point-clamped multilevel converters. , 2016, , .		1
35	Analytical exploration of conduction power losses for stacked multicell converters. , 2017, , .		1
36	New Active Capacitor Voltage Balancing Method for Seven-Level Full-Bridge Flying-Capacitor-Multicell (FCM) Inverters. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
37	New logic-form-equation based active voltage control for four-level flying capacitor multicell (FCM) converter. , 2016, , .		0
38	Phase-Disposition PWM Based Active Voltage Control of Seven-Level Nested Neutral-Point-Piloted (NNPP) Inverters. , 2020, , .		0
39	An \$LC\$ Filter Design Based on the Maximum Ripple Current for Two-Level Inverters Controlled with a Bipolar Switching Scheme. , 2020, , .		0
40	Multiple Zero-Sequence Harmonic Injection Method using Optimized Coefficients. , 2020, , .		0
41	A Fault-Tolerant Approach for Hybrid Modular Multilevel Converter Using Negative Voltage Levels. , 2021, , .		0
42	Direct Active-Balancing Control of Flying-Capacitor Voltages in an ANPC-Based Multilevel Inverter. , 2021, , .		0
43	A Pyramid-Type (PT) Multilevel Converter Topology. , 2020, , .		0