

Arash Khoshkbar-Sadigh

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7854799/publications.pdf>

Version: 2024-02-01

83
papers

1,369
citations

430874

18
h-index

377865

34
g-index

83
all docs

83
docs citations

83
times ranked

983
citing authors

#	ARTICLE	IF	CITATIONS
1	Double Flying Capacitor Multicell Converter Based on Modified Phase-Shifted Pulsewidth Modulation. IEEE Transactions on Power Electronics, 2010, 25, 1517-1526.	7.9	179
2	A New Family of Modular Multilevel Converter Based on Modified Flying-Capacitor Multicell Converters. IEEE Transactions on Power Electronics, 2015, 30, 138-147.	7.9	128
3	Flying Capacitors Reduction in an Improved Double Flying Capacitor Multicell Converter Controlled by a Modified Modulation Method. IEEE Transactions on Power Electronics, 2012, 27, 3875-3887.	7.9	102
4	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
5	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
6	Peer-to-Peer Operation Strategy of PV Equipped Office Buildings and Charging Stations Considering Electric Vehicle Energy Pricing. IEEE Transactions on Industry Applications, 2020, 56, 5848-5857.	4.9	59
7	Reduced DC voltage source flying capacitor multicell multilevel inverter: analysis and implementation. IET Power Electronics, 2014, 7, 439-450.	2.1	58
8	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
9	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
10	Dual Flying Capacitor Active-Neutral-Point-Clamped Multilevel Converter. IEEE Transactions on Power Electronics, 2016, 31, 6476-6484.	7.9	41
11	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
12	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
13	DC (direct current) voltage source reduction in stacked multicell converter based energy systems. Energy, 2012, 46, 649-663.	8.8	26
14	Investigation of Conduction and Switching Power Losses in Modified Stacked Multicell Converters. IEEE Transactions on Industrial Electronics, 2016, 63, 7780-7791.	7.9	26
15	Flying capacitor multicell converter based dynamic voltage restorer. , 2009, , .		22
16	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
17	Multi-Input High Step-Up DC-DC Converter With Independent Control of Voltage and Power for Hybrid Renewable Energy Systems. IEEE Transactions on Industrial Electronics, 2021, 68, 12079-12087.	7.9	20
18	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

#	ARTICLE	IF	CITATIONS
19	Fault-Tolerant Method to Reduce Voltage Stress of Submodules in Postfault Condition for Regenerative MMC-Based Drive. IEEE Transactions on Industrial Electronics, 2021, 68, 4718-4726.	7.9	19
20	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
21	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
22	Unified power flow controller based on two shunt converters and a series capacitor. Electric Power Systems Research, 2010, 80, 1511-1519.	3.6	14
23	Voltage sag and swell compensation with DVR based on asymmetrical cascade multicell converter. , 2011, , .		13
24	Topologies and Control Strategies of Multilevel Converters. Green Energy and Technology, 2012, , 311-340.	0.6	13
25	Elimination of DC voltage sources and reduction of power switches voltage stress in stacked multicell converters: analysis, modeling, and implementation. International Transactions on Electrical Energy Systems, 2014, 24, 653-676.	1.9	13
26	Novel multi-terminal MMC-based dc/dc converter for MVDC grid interconnection. IET Power Electronics, 2018, 11, 1266-1276.	2.1	13
27	Stacked multicell converter based DVR with energy minimized compensation strategy. , 2009, , .		12
28	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
29	Active Voltage Balancing and Thermal Performance Analysis of Dual Flying-Capacitor Active Neutral-Point-Clamped (DFC-ANPC) Inverters. IEEE Transactions on Industry Applications, 2021, 57, 637-649.	4.9	11
30	A Software-Based Fault-Tolerant Strategy for Modular Multilevel Converter Using DC Bus Voltage Control. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 3436-3445.	5.4	11
31	Comparative and Quantitative analyze on Reliability of MMC-Based and CHB-Based Drive Systems Considering Various Redundancy Strategies. , 2020, , .		10
32	Enhanced double flying capacitor multicell power converter controlled with a new switching pattern. IET Power Electronics, 2015, 8, 2386-2395.	2.1	9
33	Analysis, Design, and Investigation of a Soft-Switched Buck Converter With High Efficiency. IEEE Transactions on Power Electronics, 2022, 37, 6899-6912.	7.9	9
34	Medium-voltage DC grid connection using modular multilevel converter. , 2017, , .		8
35	A New Structure of Bidirectional DC-DC Converter for Electric Vehicle Applications. , 2020, , .		8
36	A New Five-Level Switched-Capacitor-Based Transformer-less Common-Grounded Grid-Tied Inverter. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2024, , 1-1.	5.4	8

#	ARTICLE	IF	CITATIONS
37	New method for estimating flying capacitor voltages in stacked multicell and flying capacitor multicell converters. Journal of Zhejiang University: Science C, 2010, 11, 654-662.	0.7	7
38	Analytic determination of conduction power losses in flying capacitor multicell power converter. , 2015, , .		7
39	A Flexible Step-up Modular Multilevel Converter for High-Power Drive Application. , 2020, , .		7
40	An Interleaved Soft Switched High Step-Up Boost Converter With High Power Density for Renewable Energy Applications. IEEE Transactions on Power Electronics, 2022, 37, 13782-13798.	7.9	7
41	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
42	Duo-active-neutral-point-clamped multilevel converter: An exploration of the fundamental topology and experimental verification. , 2018, , .		6
43	New auxiliary circuit for boost converter to achieve soft-switching operation and zero input current ripple. IET Power Electronics, 2020, 13, 3910-3921.	2.1	6
44	ZVT High Step-Up Boost Converter With Wide Input Voltage and Wide Output Power for Renewable Energy Applications. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 6057-6069.	5.4	6
45	Analytical determination of conduction losses for modified flying capacitor multicell converters. , 2016, , .		5
46	A New Three-Level Active Neutral-Point-Clamped (A-NPC) Multilevel Converter Topology. , 2019, , .		5
47	Analytical Design of LC Filter Inductance for Two-Level Inverters Based on Maximum Ripple Current. , 2019, , .		5
48	Calculation of conduction power losses in double flying capacitor multicell converter. , 2015, , .		4
49	Selective harmonic elimination for extended cascaded multicell multilevel power converters. , 2015, , .		4
50	Logic-Equations-Based Modulation Technique for Natural Balance Control of an Improved Active-Neutral-Point-Clamped (I-ANPC) Multilevel Converter. , 2018, , .		4
51	Modular-Concatenated-Cell (MCC) Multilevel Converter: A Novel Circuit Topology and Innovative Logic-Equations-Based Control Technique. , 2018, , .		4
52	DSP-based digital control of a set of phase-shifted full-bridge DC-DC converters. , 2015, , .		3
53	Active voltage balancing of five-level H-bridge flying capacitor multicell converter controlled with level-shifted-carrier PWM. , 2015, , .		3
54	New active capacitor voltage balancing method for five-level stacked multicell converter. , 2016, , .		3

#	ARTICLE	IF	CITATIONS
55	Medium voltage dynamic voltage restorer (DVR) based on DFCM converter for power quality improvement. , 2016, , .		3
56	Thermal and Performance Comparison of Active Neutral-Point-Clamped (ANPC) and Dual Flying-Capacitor ANPC (DFC-ANPC) Inverters. , 2019, , .		3
57	Analytical Approach to Calculate Inductor Current Ripple Cancellation in Two-Phase Interleaved Single-phase Inverter. , 2020, , .		3
58	Dynamic Voltage Restorer Controlled with Energy Minimized Compensation Method Based on Double Flying Capacitor Multicell Inverter. , 2020, , .		3
59	Power Loss Modeling and Thermal Comparison of SiC-MOSFET-Based 2-level Inverter and 3-level Flying Capacitor Multicell Inverter. , 2021, , .		3
60	Performance Analysis and Reliability Investigation of a High Step-up DC-DC Converter. , 2021, , .		3
61	Active power filter with new compensation principle based on synchronous reference frame. , 2009, , .		2
62	A new 2-cell shunt active power filter with compensation principle based on synchronous reference frame. , 2009, , .		2
63	Voltage flicker mitigation with dynamic voltage restorer. , 2010, , .		2
64	Hybrid double flying capacitor multicell converter for renewable energy integration. , 2015, , .		2
65	New configuration of dynamic voltage restorer for medium voltage application. , 2016, , .		2
66	Control of a Modular-Concatenated-Cell (MCC) Multilevel Converter Topology Exploiting Logic-Equations Method. , 2018, , .		2
67	Flying-Capacitor Voltage-Balancing Control in Five-Level Active Neutral-Point-Clamped (A-NPC) Converters Using Phase-Disposition PWM. , 2020, , .		2
68	Active voltage balancing of reduced stacked multicell multilevel power converter and its application in static VAR compensation. , 2014, , .		1
69	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
70	Analytical exploration of conduction power losses for stacked multicell converters. , 2017, , .		1
71	Logic-Equations Method for Active Voltage-Control of a Flying-Capacitor Multilevel Converter Topology. , 2018, , .		1
72	New Active Capacitor Voltage Balancing Method for Seven-Level Full-Bridge Flying-Capacitor-Multicell (FCM) Inverters. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
73	Space Vector Modulation Scheme for Dual-Output Four-Leg Inverter. , 2020, , .		1
74	A simple soft-switched buck converter without implementing auxiliary switch. Electrical Engineering, 0, , 1.	2.0	1
75	Elimination of instantaneous backward mmf in single phase induction motors. , 2009, , .		0
76	New logic-form-equation based active voltage control for four-level flying capacitor multicell (FCM) converter. , 2016, , .		0
77	Application of reduced stacked multicell converter in dual-function dynamic voltage restorer (DVR). , 2016, , .		0
78	A Unique Five-Level Converter Topology Comprising High-Frequency, Low-Frequency, and Line-Frequency Switching Semiconductor Power Devices Without Flying-Capacitors and Clamping-Diodes. , 2019, , .		0
79	Reduction of Switches and Flying Capacitors in a Hybrid Topology of the Stacked Multicell Converters. , 2019, , .		0
80	Phase-Disposition PWM Based Active Voltage Control of Seven-Level Nested Neutral-Point-Piloted (NNPP) Inverters. , 2020, , .		0
81	An \$LC\$ Filter Design Based on the Maximum Ripple Current for Two-Level Inverters Controlled with a Bipolar Switching Scheme. , 2020, , .		0
82	Multiple Zero-Sequence Harmonic Injection Method using Optimized Coefficients. , 2020, , .		0
83	A Fault-Tolerant Approach for Hybrid Modular Multilevel Converter Using Negative Voltage Levels. , 2021, , .		0