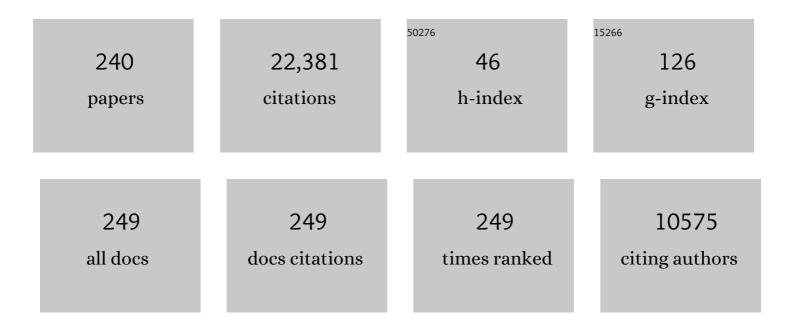
Leopoldo G Franquelo

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Power-Electronic Systems for the Grid Integration of Renewable Energy Sources: A Survey. IEEE Transactions on Industrial Electronics, 2006, 53, 1002-1016.	7.9	3,182
2	Recent Advances and Industrial Applications of Multilevel Converters. IEEE Transactions on Industrial Electronics, 2010, 57, 2553-2580.	7.9	3,160
3	The age of multilevel converters arrives. IEEE Industrial Electronics Magazine, 2008, 2, 28-39.	2.6	1,630
4	Model Predictive Control for Power Converters and Drives: Advances and Trends. IEEE Transactions on Industrial Electronics, 2017, 64, 935-947.	7.9	1,305
5	Energy Storage Systems for Transport and Grid Applications. IEEE Transactions on Industrial Electronics, 2010, 57, 3881-3895.	7.9	1,054
6	Multilevel Converters: An Enabling Technology for High-Power Applications. Proceedings of the IEEE, 2009, 97, 1786-1817.	21.3	970
7	Grid-Connected Photovoltaic Systems: An Overview of Recent Research and Emerging PV Converter Technology. IEEE Industrial Electronics Magazine, 2015, 9, 47-61.	2.6	926
8	Model Predictive Control: A Review of Its Applications in Power Electronics. IEEE Industrial Electronics Magazine, 2014, 8, 16-31.	2.6	894
9	Model Predictive Control of an Inverter With Output \$LC\$ Filter for UPS Applications. IEEE Transactions on Industrial Electronics, 2009, 56, 1875-1883.	7.9	552
10	Guidelines for weighting factors design in Model Predictive Control of power converters and drives. , 2009, , .		490
11	Extended State Observer-Based Sliding-Mode Control for Three-Phase Power Converters. IEEE Transactions on Industrial Electronics, 2017, 64, 22-31.	7.9	426
12	Grid-Connected Photovoltaic Generation Plants: Components and Operation. IEEE Industrial Electronics Magazine, 2013, 7, 6-20.	2.6	380
13	The Essential Role and the Continuous Evolution of Modulation Techniques for Voltage-Source Inverters in the Past, Present, and Future Power Electronics. IEEE Transactions on Industrial Electronics, 2016, 63, 2688-2701.	7.9	343
14	Multilevel Converters: Control and Modulation Techniques for Their Operation and Industrial Applications. Proceedings of the IEEE, 2017, 105, 2066-2081.	21.3	328
15	Predictive Optimal Switching Sequence Direct Power Control for Grid-Connected Power Converters. IEEE Transactions on Industrial Electronics, 2015, 62, 2010-2020.	7.9	302
16	A Flexible Selective Harmonic Mitigation Technique to Meet Grid Codes in Three-Level PWM Converters. IEEE Transactions on Industrial Electronics, 2007, 54, 3022-3029.	7.9	207
17	Selective Harmonic Mitigation Technique for High-Power Converters. IEEE Transactions on Industrial Electronics, 2010, 57, 2315-2323.	7.9	201
18	Modeling Strategy for Back-to-Back Three-Level Converters Applied to High-Power Wind Turbines. IEEE Transactions on Industrial Electronics, 2006, 53, 1483-1491.	7.9	191

#	Article	IF	CITATIONS
19	Cascaded H-bridge multilevel converter multistring topology for large scale photovoltaic systems. , 2011, , .		181
20	High-Performance Motor Drives. IEEE Industrial Electronics Magazine, 2011, 5, 6-26.	2.6	179
21	A Five-Level Inverter Topology with Single-DC Supply by Cascading a Flying Capacitor Inverter and an H-Bridge. IEEE Transactions on Power Electronics, 2012, 27, 3505-3512.	7.9	166
22	Event-triggering dissipative control of switched stochastic systems via sliding mode. Automatica, 2019, 103, 261-273.	5.0	154
23	Selective Harmonic Mitigation Technique for Cascaded H-Bridge Converters With Nonequal DC Link Voltages. IEEE Transactions on Industrial Electronics, 2013, 60, 1963-1971.	7.9	152
24	Seventeen-Level Inverter Formed by Cascading Flying Capacitor and Floating Capacitor H-Bridges. IEEE Transactions on Power Electronics, 2015, 30, 3471-3478.	7.9	140
25	Model Predictive Control with constant switching frequency using a Discrete Space Vector Modulation with virtual state vectors. , 2009, , .		137
26	Model Predictive Control for Single-Phase NPC Converters Based on Optimal Switching Sequences. IEEE Transactions on Industrial Electronics, 2016, 63, 7533-7541.	7.9	130
27	Three-dimensional space vector modulation in abc coordinates for four-leg voltage source converters. IEEE Power Electronics Letters, 2003, 1, 104-109.	0.7	125
28	DC-Voltage-Ratio Control Strategy for Multilevel Cascaded Converters Fed With a Single DC Source. IEEE Transactions on Industrial Electronics, 2009, 56, 2513-2521.	7.9	125
29	Feed-Forward Space Vector Modulation for Single-Phase Multilevel Cascaded Converters With Any DC Voltage Ratio. IEEE Transactions on Industrial Electronics, 2009, 56, 315-325.	7.9	122
30	Observer-Based Adaptive Sliding Mode Control of NPC Converters: An RBF Neural Network Approach. IEEE Transactions on Power Electronics, 2019, 34, 3831-3841.	7.9	122
31	Analysis of the Power Balance in the Cells of a Multilevel Cascaded H-Bridge Converter. IEEE Transactions on Industrial Electronics, 2010, 57, 2287-2296.	7.9	115
32	Three-dimensional space-vector modulation algorithm for four-leg multilevel converters using abc coordinates. IEEE Transactions on Industrial Electronics, 2006, 53, 458-466.	7.9	110
33	Multidimensional Modulation Technique for Cascaded Multilevel Converters. IEEE Transactions on Industrial Electronics, 2011, 58, 412-420.	7.9	110
34	Speed control of induction motors using a novel fuzzy sliding-mode structure. IEEE Transactions on Fuzzy Systems, 2002, 10, 375-383.	9.8	102
35	Conventional Space-Vector Modulation Techniques Versus the Single-Phase Modulator for Multilevel Converters. IEEE Transactions on Industrial Electronics, 2010, 57, 2473-2482.	7.9	95
36	Sliding Mode Control of a Three-Phase AC/DC Voltage Source Converter Under Unknown Load Conditions: Industry Applications. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 1771-1780.	9.3	94

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37	Predictive control of a three-phase UPS inverter using two steps prediction horizon. , 2010, , .		90
38	Simple Unified Approach to Develop a Time-Domain Modulation Strategy for Single-Phase Multilevel Converters. IEEE Transactions on Industrial Electronics, 2008, 55, 3239-3248.	7.9	89
39	A 3-D space vector modulation generalized algorithm for multilevel converters. IEEE Power Electronics Letters, 2003, 1, 110-114.	0.7	87
40	Model Based Adaptive Direct Power Control for Three-Level NPC Converters. IEEE Transactions on Industrial Informatics, 2013, 9, 1148-1157.	11.3	85
41	Variable-Angle Phase-Shifted PWM for Multilevel Three-Cell Cascaded H-Bridge Converters. IEEE Transactions on Industrial Electronics, 2017, 64, 3619-3628.	7.9	84
42	DC-Link Voltage-Balancing Strategy Based on Optimal Switching Sequence Model Predictive Control for Single-Phase H-NPC Converters. IEEE Transactions on Industrial Electronics, 2020, 67, 7410-7420.	7.9	82
43	Three-Dimensional Feedforward Space Vector Modulation Applied to Multilevel Diode-Clamped Converters. IEEE Transactions on Industrial Electronics, 2009, 56, 101-109.	7.9	76
44	Selective Harmonic Mitigation Based Self-Elimination of Triplen Harmonics for Single-Phase Five-Level Inverters. IEEE Transactions on Power Electronics, 2019, 34, 86-96.	7.9	72
45	Hybrid SHM-SHE Pulse-Amplitude Modulation for High-Power Four-Leg Inverter. IEEE Transactions on Industrial Electronics, 2016, 63, 7234-7242.	7.9	66
46	FASY: a fuzzy-logic based tool for analog synthesis. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 1996, 15, 705-715.	2.7	65
47	Periodicity and chaos in an autonomous electronic system. IEEE Transactions on Circuits and Systems, 1984, 31, 237-247.	0.9	60
48	Sliding Mode Control of Grid-Connected Neutral-Point-Clamped Converters Via High-Gain Observer. IEEE Transactions on Industrial Electronics, 2022, 69, 4010-4021.	7.9	59
49	Fully parallel stochastic computation architecture. IEEE Transactions on Signal Processing, 1996, 44, 2110-2117.	5.3	54
50	Unidimensional Modulation Technique for Cascaded Multilevel Converters. IEEE Transactions on Industrial Electronics, 2009, 56, 2981-2986.	7.9	54
51	Reference Current Computation Methods for Active Power Filters: Accuracy Assessment in the Frequency Domain. IEEE Transactions on Power Electronics, 2005, 20, 446-456.	7.9	48
52	Reconfigurable Distributed Network Control System for Industrial Plant Automation. IEEE Transactions on Industrial Electronics, 2004, 51, 1168-1180.	7.9	45
53	Power Routing: A New Paradigm for Maintenance Scheduling. IEEE Industrial Electronics Magazine, 2020, 14, 33-45.	2.6	41
54	Control Design Strategy for Flying Capacitor Multilevel Converters Based on Petri Nets. IEEE Transactions on Industrial Electronics, 2016, 63, 1728-1736.	7.9	40

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55	An efficient ordering algorithm to improve sparse vector methods. IEEE Transactions on Power Systems, 1988, 3, 1538-1544.	6.5	39
56	ASIC implementation of a digital tachometer with high precision in a wide speed range. IEEE Transactions on Industrial Electronics, 1996, 43, 655-660.	7.9	39
57	Binary Search Based Flexible Power Point Tracking Algorithm for Photovoltaic Systems. IEEE Transactions on Industrial Electronics, 2021, 68, 5909-5920.	7.9	39
58	A 5-Level Inverter Scheme Using Single DC Link With Reduced Number of Floating Capacitors and Switches for Open-End IM Drives. IEEE Transactions on Industrial Electronics, 2020, 67, 960-968.	7.9	38
59	Advanced Control Strategies for DC–DC Buck Converters With Parametric Uncertainties via Experimental Evaluation. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 5257-5267.	5.4	38
60	Mode ordering algorithms for sparse vector method improvement. IEEE Transactions on Power Systems, 1988, 3, 73-79.	6.5	37
61	A Very High Resolution Stacked Multilevel Inverter Topology for Adjustable Speed Drives. IEEE Transactions on Industrial Electronics, 2018, 65, 2049-2056.	7.9	37
62	Prediction Model With Harmonic Load Current Components for FCS-MPC of an Uninterruptible Power Supply. IEEE Transactions on Power Electronics, 2022, 37, 322-331.	7.9	37
63	A Three-Level Common-Mode Voltage Eliminated Inverter With Single DC Supply Using Flying Capacitor Inverter and Cascaded H-Bridge. IEEE Transactions on Power Electronics, 2014, 29, 1402-1409.	7.9	36
64	Reduced commonâ€mode voltage operation of a new sevenâ€level hybrid multilevel inverter topology with a single DC voltage source. IET Power Electronics, 2016, 9, 519-528.	2.1	34
65	Neural network for constrained predictive control. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1993, 40, 621-626.	0.1	33
66	Novel Symmetric Six-Phase Induction Motor Drive Using Stacked Multilevel Inverters With a Single DC Link and Neutral Point Voltage Balancing. IEEE Transactions on Industrial Electronics, 2017, 64, 2663-2670.	7.9	33
67	Observer-Based Sliding-Mode Control for Grid-Connected Power Converters Under Unbalanced Grid Conditions. IEEE Transactions on Industrial Electronics, 2022, 69, 517-527.	7.9	33
68	Utility-Scale Energy Storage Systems: Converters and Control. IEEE Industrial Electronics Magazine, 2020, 14, 32-52.	2.6	33
69	Model predictive control of a VSI with long prediction horizon. , 2011, , .		32
70	DC Solid State Transformer Based on Three-Level Power Module for Interconnecting MV and LV DC Distribution Systems. IEEE Transactions on Power Electronics, 2021, 36, 1563-1577.	7.9	32
71	Multilevel Multiphase Feedforward Space-Vector Modulation Technique. IEEE Transactions on Industrial Electronics, 2010, 57, 2066-2075.	7.9	31
72	High-Performance Second-Order Sliding Mode Control for NPC Converters. IEEE Transactions on Industrial Informatics, 2020, 16, 5345-5356.	11.3	31

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73	A SVM-3D generalized algorithm for multilevel converters. , 0, , .		30
74	Sliding mode control of a DC/DC PWM converter with PFC implemented by neural networks. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1997, 44, 743-749.	0.1	29
75	Finite Control Set-Model Predictive Control of a Flying Capacitor Multilevel Chopper Using Petri Nets. IEEE Transactions on Industrial Electronics, 2016, 63, 5891-5899.	7.9	29
76	Generalized Harmonic Control for CHB Converters With Unbalanced Cells Operation. IEEE Transactions on Industrial Electronics, 2020, 67, 9039-9047.	7.9	29
77	Adaptive Second-Order Sliding Mode Control for Grid-Connected NPC Converters With Enhanced Disturbance Rejection. IEEE Transactions on Power Electronics, 2022, 37, 206-220.	7.9	29
78	Model predictive control based selective harmonic mitigation technique for multilevel cascaded H-bridge converters. , 2011, , .		28
79	Applications and Modulation Methods for Modular Converters Enabling Unequal Cell Power Sharing: Carrier Variable-Angle Phase-Displacement Modulation Methods. IEEE Industrial Electronics Magazine, 2022, 16, 19-30.	2.6	28
80	Variable-Angle PS-PWM Technique for Multilevel Cascaded H-Bridge Converters With Large Number of Power Cells. IEEE Transactions on Industrial Electronics, 2021, 68, 6773-6783.	7.9	28
81	Power Electronic Systems for the Grid Integration of Wind Turbines. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	27
82	Recent advances on Energy Storage Systems. , 2011, , .		27
83	An Artificial Intelligence Approach for Real-Time Tuning of Weighting Factors in FCS-MPC for Power Converters. IEEE Transactions on Industrial Electronics, 2022, 69, 11987-11998.	7.9	26
84	Improving transition between power optimization and power limitation of variable speed, variable pitch wind turbines using fuzzy control techniques. , 0, , .		25
85	New fast space-vector modulation for multilevel converters based on geometrical considerations. , 0, , \cdot		25
86	Tracking Control System Using an Incident Radiation Angle Microsensor. IEEE Transactions on Industrial Electronics, 2007, 54, 1207-1216.	7.9	25
87	Design and experimental validation of a Model Predictive Control strategy for a VSI with long prediction horizon. , 2013, , .		24
88	FCS-MPC and observer design for a VSI with output LC filter and sinusoidal output currents. , 2017, , .		24
89	Model Predictive Control of Modular Multilevel Converters Using Quadratic Programming. IEEE Transactions on Power Electronics, 2021, 36, 7012-7025.	7.9	24
90	Advanced control of a multilevel cascaded H-bridge converter for PV applications. , 2014, , .		23

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91	Stationary frame voltage harmonic controller for standalone power generation. , 2007, , .		22
92	Reactive power and energy measurement in the frequency domain using random pulse arithmetic. IET Science, Measurement and Technology, 2001, 148, 63.	0.7	21
93	A microprocessor based system for ECG telemedicine and telecare. , 0, , .		21
94	New Space Vector Modulation Technique for Single-Phase Multilevel Converters. , 2007, , .		21
95	Fully parallel summation in a new stochastic neural network architecture. , 0, , .		20
96	Effective algorithm for multilevel converters with very low computational cost. Electronics Letters, 2002, 38, 1398.	1.0	20
97	DC-link capacitors voltage balancing in multilevel four-leg diode-clamped converters. , 2005, , .		20
98	Implementation of a neural controller for the series resonant converter. IEEE Transactions on Industrial Electronics, 2002, 49, 628-639.	7.9	19
99	Digital stochastic realization of complex analog controllers. IEEE Transactions on Industrial Electronics, 2002, 49, 1101-1109.	7.9	19
100	Sampling-Time Harmonic Control for Cascaded H-Bridge Converters With Thermal Control. IEEE Transactions on Industrial Electronics, 2020, 67, 2776-2785.	7.9	19
101	Two digital circuits for a fully parallel stochastic neural network. IEEE Transactions on Neural Networks, 1995, 6, 1264-1268.	4.2	18
102	Modeling of a three level converter used in a synchronous rectifier application. , 0, , .		18
103	Controller design for a single-phase two-cell multilevel cascade H-bridge converter. , 2008, , .		18
104	Adaptive Control for Three-Phase Power Converters With Disturbance Rejection Performance. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 674-685.	9.3	18
105	Fuzzy Sliding-Mode Control for Three-Level NPC AFE Rectifiers: A Chattering Alleviation Approach. IEEE Transactions on Power Electronics, 2022, 37, 11704-11715.	7.9	18
106	Implementation of a closed loop SHMPWM technique for three level converters. , 2008, , .		17
107	Simple modulator with voltage balancing control for the hybrid five-level flying-capacitor based ANPC converter. , 2011, , .		17
108	Variable Rounding Level Control Method for Modular Multilevel Converters. IEEE Transactions on Power Electronics, 2021, 36, 4791-4801.	7.9	17

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109	K-Best Sphere Decoding Algorithm for Long Prediction Horizon FCS-MPC. IEEE Transactions on Industrial Electronics, 2022, 69, 7571-7581.	7.9	17
110	Microprocessor and FPGA interfaces for in-system co-debugging in field programmable hybrid systems. Microprocessors and Microsystems, 2005, 29, 75-85.	2.8	16
111	Power electronic converters and control techniques in AC microgrids. , 2017, , .		16
112	Generation of High-Resolution 12-Sided Voltage Space Vector Structure Using Low-Voltage Stacked and Cascaded Basic Inverter Cells. IEEE Transactions on Power Electronics, 2018, 33, 7349-7358.	7.9	16
113	Multilevel 24-Sided Polygonal Voltage-Space-Vector Structure Generation for an IM Drive Using a Single DC Source. IEEE Transactions on Industrial Electronics, 2019, 66, 1023-1031.	7.9	16
114	Common-Mode Voltage Mitigation of Dual Three-Phase Voltage Source Inverters in a Motor Drive Application. IEEE Access, 2021, 9, 67477-67487.	4.2	16
115	A new contribution to the cluster problem. IEEE Transactions on Circuits and Systems, 1987, 34, 546-552.	0.9	15
116	Circuit performance modeling by means of fuzzy logic. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 1996, 15, 1391-1398.	2.7	15
117	Control of a three level converter used as a synchronous rectifier. , 0, , .		15
118	Recent advances in high-power industrial applications. , 2010, , .		15
119	Generalized Predictive Direct Power Control for AC/DC converters. , 2013, , .		15
120	Selective harmonic mitigation technique for multilevel cascaded H-bridge converters. , 2009, , .		14
121	Improved hybrid SHM-SHE modulation technique for four-leg three-level NPC inverters. , 2015, , .		14
122	Adaptive phase-shifted PWM for multilevel cascaded H-bridge converters with large number of power cells. , 2017, , .		14
123	Discontinuous-PWM Method for Multilevel \$N\$-Cell Cascaded H-Bridge Converters. IEEE Transactions on Industrial Electronics, 2021, 68, 7996-8005.	7.9	14
124	Utility-Scale Energy Storage Systems: A Comprehensive Review of Their Applications, Challenges, and Future Directions. IEEE Industrial Electronics Magazine, 2021, 15, 17-27.	2.6	14
125	A new power stabilization control system based on making use of mechanical inertia of a variable-speed wind-turbine for stand-alone wind-diesel applications. , 0, , .		13
126	DSP-based doubly fed induction generator test bench using a back-to-back PWM converter. , 0, , .		13

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127	Two-dimensional modulation technique with dc voltage control for single-phase two-cell cascaded converters. , 2010, , .		13
128	Operation of an hybrid PV-battery system with improved harmonic performance. , 2017, , .		13
129	Efficient FPSoC Prototyping of FCS-MPC for Three-Phase Voltage Source Inverters. Energies, 2020, 13, 1074.	3.1	13
130	Hybrid SHM-PWM for Common-Mode Voltage Reduction in Three-Phase Three-Level NPC Inverter. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 4826-4838.	5.4	13
131	Optimized Direct Power Control Strategy using Output Regulation Subspaces and Pulse Width Modulation. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	12
132	Tracking system for solar power plants. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	12
133	New trends and topologies for high power industrial applications: The multilevel converters solution. , 2009, , .		12
134	Control System Design of a Three-Phase Active Front End Using a Sliding-Mode Observer. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 739-748.	9.3	12
135	Integral Sliding-Mode Control-Based Direct Power Control for Three-Level NPC Converters. Energies, 2020, 13, 227.	3.1	12
136	Design of a mobile telecardiology system using GPRS/GSM technology. , 0, , .		11
137	Comparison between FS-MPC control strategy for an UPS inverter application in & & amp;#x03B1;-β and abc frames. , 2010, , .		11
138	Second Order Sliding Mode control for three-level NPC converters via extended state observer. , 2015, , .		11
139	A Predictive Capacitor Voltage Control of a Hybrid Cascaded Multilevel Inverter With a Single DC-Link and Reduced Common-Mode Voltage Operation. IEEE Transactions on Industrial Electronics, 2016, 63, 5285-5292.	7.9	11
140	Disturbance observer based second order sliding mode control for DC-DC buck converters. , 2017, , .		11
141	A comprehensive comparison of modulation methods for MMC converters. , 2017, , .		11
142	Fuzzy-logic-based analog design tools. IEEE Micro, 1996, 16, 60-68.	1.8	10
143	New class of multibit sigma-delta modulators using multirate architecture. Electronics Letters, 2000, 36, 783.	1.0	10
144	Power Devices Aging Equalization of Interleaved DC–DC Boost Converters via Power Routing. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2020, 1, 91-101.	3.9	10

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145	Common-Mode Voltage Mitigation Technique in Motor Drive Applications by Applying a Sampling-Time Adaptive Multi-Carrier PWM Method. IEEE Access, 2021, 9, 56115-56126.	4.2	10
146	Parallel Sphere Decoding Algorithm for Long-Prediction-Horizon FCS-MPC. IEEE Transactions on Power Electronics, 2022, 37, 7896-7906.	7.9	10
147	A fuzzy-logic controller with on-chip learning, employing stochastic logic. , 0, , .		9
148	Light source position microsensor. , 0, , .		9
149	Predictive direct power control for grid connected power converters with dc-link voltage dynamic reference design. , 2015, , .		9
150	Robust control for three-phase grid connected power converters via second order sliding mode. , 2015, , .		9
151	Binary search based MPPT algorithm for high-power PV systems. , 2016, , .		9
152	A PWM fuzzy logic controller. IEEE Micro, 1996, 16, 68-71.	1.8	8
153	An adaptive speed estimator for induction motors based on a Kalman filter with low sample time. , 0, , .		8
154	A NOVEL SPACE-VECTOR ALGORITHM FOR MULTILEVEL CONVERTERS BASED ON GEOMETRICAL CONSIDERATIONS USING A NEW SEQUENCE CONTROL TECHNIQUE. Journal of Circuits, Systems and Computers, 2004, 13, 845-861.	1.5	8
155	A hybrid multilevel inverter scheme for induction motor drives and grid-tied applications using a single DC-link. , 2015, , .		8
156	A hybrid seven level inverter topology with a single DC supply and reduced switch count. , 2015, , .		8
157	Extended Linear Modulation Operation of a Common-Mode-Voltage-Eliminated Cascaded Multilevel Inverter With a Single DC Supply. IEEE Transactions on Industrial Electronics, 2016, 63, 7372-7380.	7.9	8
158	Second-order sliding mode control of power converters using different disturbance observers for DC-link voltage regulation. , 2017, , .		8
159	Real-Time Selective Harmonic Mitigation Technique for Power Converters Based on the Exchange Market Algorithm. Energies, 2020, 13, 1659.	3.1	8
160	Fuzzy Logic System-Based Sliding-Mode Control for Three-Level NPC Converters. IEEE Transactions on Transportation Electrification, 2022, 8, 3307-3319.	7.8	8
161	Power Device Lifetime Extension of Dc-Dc Interleaved Converters via Power Routing. , 2018, , .		7
162	Closed-loop active thermal control via power routing of parallel DC-DC converters. , 2018, , .		7

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163	Feed-forward Modulation Technique for more Accurate Operation of Modular Multilevel Converters. IEEE Transactions on Power Electronics, 2021, , 1-1.	7.9	7
164	A Very High Resolution 30-Sided Space Vector Generation From a Single DC-Link for Induction Motor Drives. IEEE Transactions on Industrial Electronics, 2022, 69, 160-168.	7.9	7
165	Observerâ€based slidingâ€mode control of a DC/DC buck converter for railway systems. IET Renewable Power Generation, 2020, 14, 3579-3588.	3.1	7
166	New controllability criteria for 3-phase 4-wire inverters applied to shunt active power filters. , 0, , .		6
167	A Generalized Predictive control for T-type power inverters with output LC filter. , 2015, , .		6
168	Selective harmonic mitigation technique based on the exchange market algorithm for high-power applications. , 2017, , .		6
169	Suppression of Lower Order Harmonics for the Full Modulation Range for a Two-Level Inverter-Fed IM Drive With a Switched-Capacitive Filter Technique Forming a 42-Sided Voltage Space Vector Structure. IEEE Transactions on Industrial Electronics, 2021, 68, 6701-6709.	7.9	6
170	Capacitor Lifetime Extension of Interleaved DC–DC Converters for Multistring PV Systems. IEEE Transactions on Industrial Electronics, 2023, 70, 4854-4864.	7.9	6
171	A new three phase multilevel inverter with reduced number of switching power devices with Common Mode Voltage elimination. , 2016, , .		5
172	Flexible Harmonic Control for Three-Level Selective Harmonic Modulation Using the Exchange Market Algorithm. , 2018, , .		5
173	MRAS-Based Sensorless Control of PMSM with BPN in Prediction Mode. , 2019, , .		5
174	A High-Gain Observer-Based Adaptive Super-Twisting Algorithm for DC-Link Voltage Control of NPC Converters. Energies, 2020, 13, 1110.	3.1	5
175	Control of resonant converters using the LQG/LTR method. , 0, , .		4
176	AFAN: tool for optimizing fuzzy controllers. IEEE Micro, 1997, 17, 50-54.	1.8	4
177	CARDIOSMART: intelligent cardiology monitoring system using GPS/GPRS networks. , 0, , .		4
178	Simple and advanced three dimensional spacevector modulation algorithm for four-leg multilevel converters topology. , 0, , .		4
179	New State Vectors Selection Using Space Vector Modulation in Three Dimensional Control Regions for Multilevel Converters. , 2006, , .		4
180	Two-dimensional modulation technique for multilevel cascaded H-bridge converters. , 2009, , .		4

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181	Novel modulator for the hybrid two-cell flying-capacitor based ANPC converter. , 2011, , .		4
182	Common-mode voltage eliminated three-level inverter using a three-level flying-capacitor inverter and cascaded H-Bridge. , 2012, , .		4
183	Introduction to the Special Section on Modulation Techniques for DC-to-AC Power Converters. IEEE Transactions on Industrial Electronics, 2013, 60, 1859-1860.	7.9	4
184	Adaptive phase-shifted PWM for multilevel cascaded H-bridge converters for balanced or unbalanced operation. , 2015, , .		4
185	Variable-angle interleaved DC-DC converters. , 2016, , .		4
186	Backstepping Control of a DC-DC Boost Converters Under Unknown Disturbances. , 2018, , .		4
187	Finite Control Set Model Predictive Control with an Output Current Observer in the dq-Synchronous Reference Frame for an Uninterruptible Power Supply System. , 2019, , .		4
188	Extended State Observer Based Second Order Sliding Mode Control Strategy for DC-DC Buck Converters. , 2019, , .		4
189	FS-MPC Method for MMCs with Large Number of Submodules with Reduced Computational Cost. , 2020, , .		4
190	A Multilevel Inverter With Inherent Common Coupling Point Voltage Balancing of Stacked Capacitors Across a Single DC-Link for Induction Motor Drives. IEEE Transactions on Industrial Electronics, 2022, 69, 12496-12505.	7.9	4
191	Simple Control Algorithm to Balance the DC-Link Voltage in Multilevel Four-Leg Four-Wire Diode Clamped Converters. , 2006, , .		3
192	A simple and low cost modulation technique for single-phase multilevel cascade converters based on geometrical considerations. , 2008, , .		3
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