

# Leopoldo G Franquelo

## List of Publications by Year in descending order

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240  
papers

22,381  
citations

50276

46  
h-index

15266

126  
g-index

249  
all docs

249  
docs citations

249  
times ranked

10575  
citing authors

#	ARTICLE	IF	CITATIONS
1	Capacitor Lifetime Extension of Interleaved DC-DC Converters for Multistring PV Systems. IEEE Transactions on Industrial Electronics, 2023, 70, 4854-4864.	7.9	6
2	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
3	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
4	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
5	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
6	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
7	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
8	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
9	K-Best Sphere Decoding Algorithm for Long Prediction Horizon FCS-MPC. IEEE Transactions on Industrial Electronics, 2022, 69, 7571-7581.	7.9	17
10	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
11	A Single DC-Link Multilevel 42-Sided Polygonal Voltage Space Vector Generation With Lower Order Harmonic Suppression Using Switched-Capacitor Filter. IEEE Transactions on Industrial Electronics, 2022, 69, 12369-12378.	7.9	0
12	Fuzzy Logic System-Based Sliding-Mode Control for Three-Level NPC Converters. IEEE Transactions on Transportation Electrification, 2022, 8, 3307-3319.	7.8	8
13	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
14	Parallel Sphere Decoding Algorithm for Long-Prediction-Horizon FCS-MPC. IEEE Transactions on Power Electronics, 2022, 37, 7896-7906.	7.9	10
15	The Influence of MPPT Algorithms in the Lifespan of the Capacitor Across the PV Array. IEEE Access, 2022, 10, 40945-40952.	4.2	1
16	A Floquet theory-based fast time-domain stability analysis for $N$ -parallel inverters system. IET Power Electronics, 2022, 15, 186-202.	2.1	0
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Variable Rounding Level Control Method for Modular Multilevel Converters. IEEE Transactions on Power Electronics, 2021, 36, 4791-4801.	7.9	17
22	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
23	Discontinuous-PWM Method for Multilevel $N$ -Cell Cascaded H-Bridge Converters. IEEE Transactions on Industrial Electronics, 2021, 68, 7996-8005.	7.9	14
24	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
25	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
26	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
27	Feed-forward Modulation Technique for more Accurate Operation of Modular Multilevel Converters. IEEE Transactions on Power Electronics, 2021, , 1-1.	7.9	7
28	Common-Mode Voltage Harmonic Reduction in Variable Speed Drives Applying a Variable-Angle Carrier Phase-Displacement PWM Method. Energies, 2021, 14, 2929.	3.1	0
29	Model Predictive Control of Modular Multilevel Converters Using Quadratic Programming. IEEE Transactions on Power Electronics, 2021, 36, 7012-7025.	7.9	24
30	Binary Search Based Flexible Power Point Tracking Algorithm for Photovoltaic Systems. IEEE Transactions on Industrial Electronics, 2021, 68, 5909-5920.	7.9	39
31	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
32	Estimation of the capacitor voltages in flying capacitor multi-level converters. IET Power Electronics, 2021, 14, 651-665.	2.1	3
33	Event-Triggered Continuous Control Set-Model Predictive Control for Three-Phase Power Converters. , 2021, , .		3
34	Suppression of Lower Order Harmonics using a 21-Concentric 42-sided polygonal Space Vector Structure for Induction Motor Drive Applications. , 2021, , .		0
35	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
36	Sampling-Time Harmonic Control for Cascaded H-Bridge Converters With Thermal Control. IEEE Transactions on Industrial Electronics, 2020, 67, 2776-2785.	7.9	19

#	ARTICLE	IF	CITATIONS
37	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
38	High-Performance Second-Order Sliding Mode Control for NPC Converters. IEEE Transactions on Industrial Informatics, 2020, 16, 5345-5356.	11.3	31
39	Generalized Harmonic Control for CHB Converters With Unbalanced Cells Operation. IEEE Transactions on Industrial Electronics, 2020, 67, 9039-9047.	7.9	29
40	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
41	FCS-MPC and Observer Design in the dq Synchronous Frame: An Experimental Validation. , 2020, , .		3
42	Power Routing: A New Paradigm for Maintenance Scheduling. IEEE Industrial Electronics Magazine, 2020, 14, 33-45.	2.6	41
43	A Fifteen Concentric 30-sided Polygonal Space Vector Structure Using a Single DC-link for OEIM drive. , 2020, , .		0
44	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
45	A Multilevel 30-sided Space Vector Structure Generation for an Induction Motor Drive Using a Single DC-link. , 2020, , .		0
46	Efficient FPSoC Prototyping of FCS-MPC for Three-Phase Voltage Source Inverters. Energies, 2020, 13, 1074.	3.1	13
47	Integral Sliding-Mode Control-Based Direct Power Control for Three-Level NPC Converters. Energies, 2020, 13, 227.	3.1	12
48	Real-Time Selective Harmonic Mitigation Technique for Power Converters Based on the Exchange Market Algorithm. Energies, 2020, 13, 1659.	3.1	8
49	A High-Gain Observer-Based Adaptive Super-Twisting Algorithm for DC-Link Voltage Control of NPC Converters. Energies, 2020, 13, 1110.	3.1	5
50	FS-MPC Method for MMCs with Large Number of Submodules with Reduced Computational Cost. , 2020, , .		4
51	Utility-Scale Energy Storage Systems: Converters and Control. IEEE Industrial Electronics Magazine, 2020, 14, 32-52.	2.6	33
52	Observer-based sliding-mode control of a DC/DC buck converter for railway systems. IET Renewable Power Generation, 2020, 14, 3579-3588.	3.1	7
53	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
54	MRAS-Based Sensorless Control of PMSM with BPN in Prediction Mode. , 2019, , .		5

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55	Event-triggering dissipative control of switched stochastic systems via sliding mode. <i>Automatica</i> , 2019, 103, 261-273.	5.0	154
56	A Five-Level Inverter Scheme with Increased Linear Modulation Range. , 2019, , .		0
57	High-quality Output Voltage of Multilevel Cascaded H-bridge Converters with Large Number of Cells with Unequal DC Voltages. , 2019, , .		3
58	Cost-effective Design of Modular Multilevel Converter Employing Full-bridge Submodules. , 2019, , .		1
59	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
60	A 5-Level Inverter Topology Using a Single DC-Link with Reduced Switch Count for Open-End Induction Motor Drives. , 2019, , .		0
61	Extended State Observer Based Second Order Sliding Mode Control Strategy for DC-DC Buck Converters. , 2019, , .		4
62	Adaptive Sliding Mode Observer Design for Three-Phase Grid Voltage Parameters Under Unbalanced Faults. , 2019, , .		0
63	Selective Harmonic Mitigation Based Self-Elimination of Triplen Harmonics for Single-Phase Five-Level Inverters. <i>IEEE Transactions on Power Electronics</i> , 2019, 34, 86-96.	7.9	72
64	Multilevel 24-Sided Polygonal Voltage-Space-Vector Structure Generation for an IM Drive Using a Single DC Source. <i>IEEE Transactions on Industrial Electronics</i> , 2019, 66, 1023-1031.	7.9	16
65	Sliding Mode Control of a Three-Phase AC/DC Voltage Source Converter Under Unknown Load Conditions: Industry Applications. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2018, 48, 1771-1780.	9.3	94
66	Generation of High-Resolution 12-Sided Voltage Space Vector Structure Using Low-Voltage Stacked and Cascaded Basic Inverter Cells. <i>IEEE Transactions on Power Electronics</i> , 2018, 33, 7349-7358.	7.9	16
67	A Very High Resolution Stacked Multilevel Inverter Topology for Adjustable Speed Drives. <i>IEEE Transactions on Industrial Electronics</i> , 2018, 65, 2049-2056.	7.9	37
68	Generating the Arm Voltage References of Modular Multilevel Converters Employing Predictive Technique. , 2018, , .		1
69	Flexible Harmonic Control for Three-Level Selective Harmonic Modulation Using the Exchange Market Algorithm. , 2018, , .		5
70	Backstepping Control of a DC-DC Boost Converters Under Unknown Disturbances. , 2018, , .		4
71	Power Device Lifetime Extension of Dc-Dc Interleaved Converters via Power Routing. , 2018, , .		7
72	Improving the operation of the modular multilevel converters with model predictive control. , 2018, , .		1

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73	Closed-loop active thermal control via power routing of parallel DC-DC converters. , 2018, , .		7
74	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
75	FCS-MPC and observer design for a VSI with output LC filter and sinusoidal output currents. , 2017, , .		24
76	Stacked multilevel inverter fed six phase induction motor with reduced DC link and lower voltage devices. , 2017, , .		0
77	Sliding mode control of three-phase power converters with disturbance attenuation performance. , 2017, , .		3
78	Adaptive phase-shifted PWM for multilevel cascaded H-bridge converters with large number of power cells. , 2017, , .		14
79	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
80	Multilevel dodecagonal space vector generation using stacked inverter cells for IM drives. , 2017, , .		0
81	Multilevel Converters: Control and Modulation Techniques for Their Operation and Industrial Applications. Proceedings of the IEEE, 2017, 105, 2066-2081.	21.3	328
82	Model Predictive Control for Power Converters and Drives: Advances and Trends. IEEE Transactions on Industrial Electronics, 2017, 64, 935-947.	7.9	1,305
83	Extended State Observer-Based Sliding-Mode Control for Three-Phase Power Converters. IEEE Transactions on Industrial Electronics, 2017, 64, 22-31.	7.9	426
84	Operation of an hybrid PV-battery system with improved harmonic performance. , 2017, , .		13
85	Selective harmonic mitigation technique based on the exchange market algorithm for high-power applications. , 2017, , .		6
86	Disturbance observer based second order sliding mode control for DC-DC buck converters. , 2017, , .		11
87	Power electronic converters and control techniques in AC microgrids. , 2017, , .		16
88	Six concentric multilevel twenty-four sided voltage space vector structure for IM drives. , 2017, , .		2
89	A simple model predictive control strategy aiming at enhancing the performance of modular multilevel converters. , 2017, , .		1
90	A comprehensive comparison of modulation methods for MMC converters. , 2017, , .		11

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91	Second-order sliding mode control of power converters using different disturbance observers for DC-link voltage regulation. , 2017, , .		8
92	Variable-angle interleaved DC-DC converters. , 2016, , .		4
93	A new nine level stacked inverter topology for a symmetric six phase induction motor with low voltage devices and using a single DC link. , 2016, , .		0
94	A novel forty nine level stacked inverter topology using low voltage devices for drives. , 2016, , .		0
95	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
96	Binary search based MPPT algorithm for high-power PV systems. , 2016, , .		9
97	A new three phase multilevel inverter with reduced number of switching power devices with Common Mode Voltage elimination. , 2016, , .		5
98	Predictive direct power control for grid-connected power converters with an Extended State Observer based dc-link voltage regulator. , 2016, , .		3
99	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
100	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
101	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
102	Reduced common-mode voltage operation of a new seven-level hybrid multilevel inverter topology with a single DC voltage source. IET Power Electronics, 2016, 9, 519-528.	2.1	34
103	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
104	Hybrid SHM-SHE Pulse-Amplitude Modulation for High-Power Four-Leg Inverter. IEEE Transactions on Industrial Electronics, 2016, 63, 7234-7242.	7.9	66
105	Control Design Strategy for Flying Capacitor Multilevel Converters Based on Petri Nets. IEEE Transactions on Industrial Electronics, 2016, 63, 1728-1736.	7.9	40
106	Welcome message from the IECON2015 general chairs. , 2015, , .		0
107	Communications scheme of a modular power conversion system. , 2015, , .		2
108	Adaptive phase-shifted PWM for multilevel cascaded H-bridge converters for balanced or unbalanced operation. , 2015, , .		4

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109	A Generalized Predictive control for T-type power inverters with output LC filter. , 2015, , .		6
110	Predictive direct power control for grid connected power converters with dc-link voltage dynamic reference design. , 2015, , .		9
111	Second Order Sliding Mode control for three-level NPC converters via extended state observer. , 2015, , .		11
112	Improved hybrid SHM-SHE modulation technique for four-leg three-level NPC inverters. , 2015, , .		14
113	A hybrid multilevel inverter scheme for induction motor drives and grid-tied applications using a single DC-link. , 2015, , .		8
114	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
115	A hybrid seven level inverter topology with a single DC supply and reduced switch count. , 2015, , .		8
116	Robust control for three-phase grid connected power converters via second order sliding mode. , 2015, , .		9
117	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
118	Predictive Optimal Switching Sequence Direct Power Control for Grid-Connected Power Converters. IEEE Transactions on Industrial Electronics, 2015, 62, 2010-2020.	7.9	302
119	Advanced control of a multilevel cascaded H-bridge converter for PV applications. , 2014, , .		23
120	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
121	Model Predictive Control: A Review of Its Applications in Power Electronics. IEEE Industrial Electronics Magazine, 2014, 8, 16-31.	2.6	894
122	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
123	Generalized Predictive Direct Power Control for AC/DC converters. , 2013, , .		15
124	Grid-Connected Photovoltaic Generation Plants: Components and Operation. IEEE Industrial Electronics Magazine, 2013, 7, 6-20.	2.6	380
125	Model Based Adaptive Direct Power Control for Three-Level NPC Converters. IEEE Transactions on Industrial Informatics, 2013, 9, 1148-1157.	11.3	85
126	How power electronics contribute to the current energy arena. , 2013, , .		2



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127	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
128	Design and experimental validation of a Model Predictive Control strategy for a VSI with long prediction horizon. , 2013, , .		24
129	A seventeen-level inverter with a single DC-link for motor drives. , 2013, , .		3
130	Educational hardware/software interface for power electronic applications. , 2012, , .		0
131	Common-mode voltage eliminated three-level inverter using a three-level flying-capacitor inverter and cascaded H-Bridge. , 2012, , .		4
132	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
133	Novel modulator for the hybrid two-cell flying-capacitor based ANPC converter. , 2011, , .		4
134	Recent advances on Energy Storage Systems. , 2011, , .		27
135	Cascaded H-bridge multilevel converter multistring topology for large scale photovoltaic systems. , 2011, , .		181
136	Model predictive control based selective harmonic mitigation technique for multilevel cascaded H-bridge converters. , 2011, , .		28
137	Simple modulator with voltage balancing control for the hybrid five-level flying-capacitor based ANPC converter. , 2011, , .		17
138	Multidimensional Modulation Technique for Cascaded Multilevel Converters. IEEE Transactions on Industrial Electronics, 2011, 58, 412-420.	7.9	110
139	IECON and AdCom Meetings [Message from the President]. IEEE Industrial Electronics Magazine, 2011, 5, 3-3.	2.6	0
140	IES Celebrates Its 60th Anniversary [Message from the President]. IEEE Industrial Electronics Magazine, 2011, 5, 3-3.	2.6	0
141	IES Turns 60! [Message from the President]. IEEE Industrial Electronics Magazine, 2011, 5, 4-4.	2.6	0
142	The Next Generation of IES [Message from the President]. IEEE Industrial Electronics Magazine, 2011, 5, 4-4.	2.6	3
143	High-Performance Motor Drives. IEEE Industrial Electronics Magazine, 2011, 5, 6-26.	2.6	179
144	Model predictive control of a VSI with long prediction horizon. , 2011, , .		32

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145	From My Perspective [Message from the President. IEEE Industrial Electronics Magazine, 2010, 4, 3-5.	2.6	0
146	Outstanding Volunteering During ICIT 2010 [Message from the President. IEEE Industrial Electronics Magazine, 2010, 4, 4-4.	2.6	0
147	IEEE IES: A Society with a Global View [Message from the President. IEEE Industrial Electronics Magazine, 2010, 4, 3-3.	2.6	0
148	IEEE IES Is in Good Health [Message from the President. IEEE Industrial Electronics Magazine, 2010, 4, 3-3.	2.6	0
149	Recent advances in high-power industrial applications. , 2010, , .		15
150	Predictive control of a three-phase UPS inverter using two steps prediction horizon. , 2010, , .		90
151	Two-dimensional modulation technique with dc voltage control for single-phase two-cell cascaded converters. , 2010, , .		13
152	Recent Advances and Industrial Applications of Multilevel Converters. IEEE Transactions on Industrial Electronics, 2010, 57, 2553-2580.	7.9	3,160
153	Multilevel Multiphase Feedforward Space-Vector Modulation Technique. IEEE Transactions on Industrial Electronics, 2010, 57, 2066-2075.	7.9	31
154	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
155	Selective Harmonic Mitigation Technique for High-Power Converters. IEEE Transactions on Industrial Electronics, 2010, 57, 2315-2323.	7.9	201
156	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
157	Energy Storage Systems for Transport and Grid Applications. IEEE Transactions on Industrial Electronics, 2010, 57, 3881-3895.	7.9	1,054
158	Comparison between FS-MPC control strategy for an UPS inverter application in &#x03B1;-&#x03B2; and abc frames. , 2010, , .		11
159	Educational software interface for power electronic applications. , 2010, , .		0
160	Two-dimensional modulation technique for multilevel cascaded H-bridge converters. , 2009, , .		4
161	Multilevel Converters: An Enabling Technology for High-Power Applications. Proceedings of the IEEE, 2009, 97, 1786-1817.	21.3	970
162	Honoring Dr. Bimal K. Bose [Tributes]. IEEE Industrial Electronics Magazine, 2009, 3, 12-14.	2.6	1

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163	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
164	Model Predictive Control with constant switching frequency using a Discrete Space Vector Modulation with virtual state vectors. , 2009, , .		137
165	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
166	New trends and topologies for high power industrial applications: The multilevel converters solution. , 2009, , .		12
167	Selective harmonic mitigation technique for multilevel cascaded H-bridge converters. , 2009, , .		14
168	Guidelines for weighting factors design in Model Predictive Control of power converters and drives. , 2009, , .		490
169	Three-Dimensional Feedforward Space Vector Modulation Applied to Multilevel Diode-Clamped Converters. IEEE Transactions on Industrial Electronics, 2009, 56, 101-109.	7.9	76
170	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
171	Unidimensional Modulation Technique for Cascaded Multilevel Converters. IEEE Transactions on Industrial Electronics, 2009, 56, 2981-2986.	7.9	54
172	A simple and low cost modulation technique for single-phase multilevel cascade converters based on geometrical considerations. , 2008, , .		3
173	The age of multilevel converters arrives. IEEE Industrial Electronics Magazine, 2008, 2, 28-39.	2.6	1,630
174	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
175	Implementation of a closed loop SHMPWM technique for three level converters. , 2008, , .		17
176	Controller design for a single-phase two-cell multilevel cascade H-bridge converter. , 2008, , .		18
177	Space vector modulation for multilevel single-phase cascade converters avoiding the negative effects of the DC voltage unbalance. , 2008, , .		2
178	Stationary frame voltage harmonic controller for standalone power generation. , 2007, , .		22
179	Tracking Control System Using an Incident Radiation Angle Microsensor. IEEE Transactions on Industrial Electronics, 2007, 54, 1207-1216.	7.9	25
180	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

#	ARTICLE	IF	CITATIONS
181	New Space Vector Modulation Technique for Single-Phase Multilevel Converters. , 2007, , .		21
182	Power Electronic Systems for the Grid Integration of Wind Turbines. Industrial Electronics Society (IECON ), Annual Conference of IEEE, 2006, , .	0.0	27
183	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
184	Tracking system for solar power plants. Industrial Electronics Society (IECON ), Annual Conference of IEEE, 2006, , .	0.0	12
185	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
186	Simple Control Algorithm to Balance the DC-Link Voltage in Multilevel Four-Leg Four-Wire Diode Clamped Converters. , 2006, , .		3
187	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
188	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
189	New State Vectors Selection Using Space Vector Modulation in Three Dimensional Control Regions for Multilevel Converters. , 2006, , .		4
190	Message From The Technical Program Co-chairs. , 2005, , .		0
191	Microprocessor and FPGA interfaces for in-system co-debugging in field programmable hybrid systems. Microprocessors and Microsystems, 2005, 29, 75-85.	2.8	16
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