Ramon Portillo

List of Publications by Year
in descending order

37 papers	**7,214** citations	516561 **16** h-index	794469 **19** g-index
37 all docs	**37** docs citations	**37** times ranked	**4882** citing authors

#	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.	5.2	3,182
2	The age of multilevel converters arrives. IEEE Industrial Electronics Magazine, 2008, 2, 28-39.	2.3	1,630
3	Multilevel Converters: An Enabling Technology for High-Power Applications. Proceedings of the IEEE, 2009, 97, 1786-1817.	16.4	970
4	Selective Harmonic Mitigation Technique for High-Power Converters. IEEE Transactions on Industrial Electronics, 2010, 57, 2315-2323.	5.2	201
5	Modeling Strategy for Back-to-Back Three-Level Converters Applied to High-Power Wind Turbines. IEEE Transactions on Industrial Electronics, 2006, 53, 1483-1491.	5.2	191
6	Three-dimensional space-vector modulation algorithm for four-leg multilevel converters using abc coordinates. IEEE Transactions on Industrial Electronics, 2006, 53, 458-466.	5.2	110
7	Multidimensional Modulation Technique for Cascaded Multilevel Converters. IEEE Transactions on Industrial Electronics, 2011, 58, 412-420.	5.2	110
8	Conventional Space-Vector Modulation Techniques Versus the Single-Phase Modulator for Multilevel Converters. IEEE Transactions on Industrial Electronics, 2010, 57, 2473-2482.	5.2	95
9	Simple Unified Approach to Develop a Time-Domain Modulation Strategy for Single-Phase Multilevel Converters. IEEE Transactions on Industrial Electronics, 2008, 55, 3239-3248.	5.2	89
10	Model Based Adaptive Direct Power Control for Three-Level NPC Converters. IEEE Transactions on Industrial Informatics, 2013, 9, 1148-1157.	7.2	85
11	Variable-Angle Phase-Shifted PWM for Multilevel Three-Cell Cascaded H-Bridge Converters. IEEE Transactions on Industrial Electronics, 2017, 64, 3619-3628.	5.2	84
12	Three-Dimensional Feedforward Space Vector Modulation Applied to Multilevel Diode-Clamped Converters. IEEE Transactions on Industrial Electronics, 2009, 56, 101-109.	5.2	76
13	Hybrid SHM-SHE Pulse-Amplitude Modulation for High-Power Four-Leg Inverter. IEEE Transactions on Industrial Electronics, 2016, 63, 7234-7242.	5.2	66
14	A SVM-3D generalized algorithm for multilevel converters. , 0, , .		30
15	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.	5.2	28
16	Power Electronic Systems for the Grid Integration of Wind Turbines. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	27
17	New fast space-vector modulation for multilevel converters based on geometrical considerations. , 0, , .		25
18	New Space Vector Modulation Technique for Single-Phase Multilevel Converters. , 2007, , .		21

#	ARTICLE	IF	CITATIONS
19	DC-link capacitors voltage balancing in multilevel four-leg diode-clamped converters. , 2005, , .		20
20	Modeling of a three level converter used in a synchronous rectifier application. , 0, , .		18
21	Implementation of a closed loop SHMPWM technique for three level converters. , 2008, , .		17
22	Voltage balancing in three-level neutral-point-clamped converters via Luenberger observer. Control Engineering Practice, 2014, 25, 36-44.	3.2	17
23	Control of a three level converter used as a synchronous rectifier. , 0, , .		15
24	Selective harmonic mitigation technique for multilevel cascaded H-bridge converters. , 2009, , .		14
25	Improved hybrid SHM-SHE modulation technique for four-leg three-level NPC inverters. , 2015, , .		14
26	Two-dimensional modulation technique with dc voltage control for single-phase two-cell cascaded converters. , 2010, , .		13
27	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.	3.7	13
28	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.	2.6	10
29	Modeling of Five-Level Converter Used in a Synchronous Rectifier Application. , 0, , .		9
30	Real-Time Selective Harmonic Mitigation Technique for Power Converters Based on the Exchange Market Algorithm. Energies, 2020, 13, 1659.	1.6	8
31	Selective harmonic mitigation technique based on the exchange market algorithm for high-power applications. , 2017, , .		6
32	Simple and advanced three dimensional spacevector modulation algorithm for four-leg multilevel converters topology. , 0, , .		4
33	New State Vectors Selection Using Space Vector Modulation in Three Dimensional Control Regions for Multilevel Converters. , 2006, , .		4
34	Two-dimensional modulation technique for multilevel cascaded H-bridge converters. , 2009, , .		4
35	Wind Turbine Applications. , 2011, , 791-822.		4
36	Adaptive phase-shifted PWM for multilevel cascaded H-bridge converters for balanced or unbalanced operation. , 2015, , .		4

#	Article	IF	Citations
37	Wind Turbine Applications. , 2007, , 737-768.		0