Juan Manuel Carrasco

List of Publications by Year
in descending order

67	7,611	304602	345118
papers	citations	22 h-index	36 g-index

67	67	67	6714
all docs	docs citations	times ranked	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	Energy Storage Systems for Transport and Grid Applications. IEEE Transactions on Industrial Electronics, 2010, 57, 3881-3895.	5.2	1,054
3	A New Fast Peak Current Controller for Transient Voltage Faults for Power Converters. Energies, 2016, 9, 1.	1.6	775
4	Enhanced Decoupled Double Synchronous Reference Frame Current Controller for Unbalanced Grid-Voltage Conditions. IEEE Transactions on Power Electronics, 2012, 27, 3934-3943.	5.4	258
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	A Model-Based Direct Power Control for Three-Phase Power Converters. IEEE Transactions on Industrial Electronics, 2008, 55, 1647-1657.	5.2	168
7	Analysis and design of direct power control (DPC) for a three phase synchronous rectifier via output regulation subspaces. IEEE Transactions on Power Electronics, 2003, 18, 823-830.	5.4	166
8	Model Predictive Control with constant switching frequency using a Discrete Space Vector Modulation with virtual state vectors. , 2009, , .		137
9	Adaptive Vectorial Filter for Grid Synchronization of Power Converters Under Unbalanced and/or Distorted Grid Conditions. IEEE Transactions on Industrial Electronics, 2014, 61, 1355-1367.	5.2	130
10	DC-Voltage-Ratio Control Strategy for Multilevel Cascaded Converters Fed With a Single DC Source. IEEE Transactions on Industrial Electronics, 2009, 56, 2513-2521.	5.2	125
11	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.	5.2	122
12	Analysis of the Power Balance in the Cells of a Multilevel Cascaded H-Bridge Converter. IEEE Transactions on Industrial Electronics, 2010, 57, 2287-2296.	5.2	115
13	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
14	Multidimensional Modulation Technique for Cascaded Multilevel Converters. IEEE Transactions on Industrial Electronics, 2011, 58, 412-420.	5.2	110
15	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
16	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
17	A 3-D space vector modulation generalized algorithm for multilevel converters. IEEE Power Electronics Letters, 2003, 1, 110-114.	1.1	87
18	Three-Dimensional Feedforward Space Vector Modulation Applied to Multilevel Diode-Clamped Converters. IEEE Transactions on Industrial Electronics, 2009, 56, 101-109.	5.2	76

#	Article	IF	Citations
19	Unidimensional Modulation Technique for Cascaded Multilevel Converters. IEEE Transactions on Industrial Electronics, 2009, 56, 2981-2986.	5.2	54
20	Analysis and experimentation of nonlinear adaptive controllers for the series resonant converter. IEEE Transactions on Power Electronics, 2000, 15, 536-544.	5.4	44
21	A SVM-3D generalized algorithm for multilevel converters. , 0, , .		30
22	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
23	Power Electronic Systems for the Grid Integration of Wind Turbines. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	27
24	Recent advances on Energy Storage Systems. , 2011, , .		27
25	New fast space-vector modulation for multilevel converters based on geometrical considerations. , 0, , .		25
26	Power conditioning of fuel cell systems in portable applications. International Journal of Hydrogen Energy, 2007, 32, 1559-1566.	3.8	25
27	Model Predictive Control of a switched reluctance machine using discrete Space Vector Modulation. , 2010, , .		24
28	New Space Vector Modulation Technique for Single-Phase Multilevel Converters. , 2007, , .		21
29	Effective algorithm for multilevel converters with very low computational cost. Electronics Letters, 2002, 38, 1398.	0.5	20
30	A family of switching control strategies for the reduction of torque ripple in DTC. IEEE Transactions on Control Systems Technology, 2003, 11, 933-939.	3.2	20
31	Implementation of a neural controller for the series resonant converter. IEEE Transactions on Industrial Electronics, 2002, 49, 628-639.	5.2	19
32	A switching control strategy based on output regulation subspaces for the control of induction motors using a three-level inverter. IEEE Power Electronics Letters, 2003, 1, 29-32.	1.1	19
33	Modeling of a three level converter used in a synchronous rectifier application. , 0, , .		18
34	Controller design for a single-phase two-cell multilevel cascade H-bridge converter. , 2008, , .		18
35	Microprocessor and FPGA interfaces for in-system co-debugging in field programmable hybrid systems. Microprocessors and Microsystems, 2005, 29, 75-85.	1.8	16
36	Control of a three level converter used as a synchronous rectifier. , 0, , .		15

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37	Optimal Scheduling of Energy Storage Using A New Priority-Based Smart Grid Control Method. Energies, 2019, 12, 579.	1.6	14
38	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
39	DSP-based doubly fed induction generator test bench using a back-to-back PWM converter. , 0, , .		13
40	Decoupled Double Synchronous Reference Frame current controller for unbalanced grid voltage conditions. , 2012, , .		13
41	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
42	Comparison between FS-MPC control strategy for an UPS inverter application in α-β and abc frames. , 2010, , .		11
43	Modeling of Five-Level Converter Used in a Synchronous Rectifier Application. , 0, , .		9
44	A dual-loop PI controller for a DC/DC full-bridge power converter with ZVS modulation. , 2009, , .		9
45	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.	1.0	8
46	Multi P2P Energy Trading Market, Integrating Energy Storage Systems and Used for Optimal Scheduling. IEEE Access, 2022, 10, 64302-64315.	2.6	8
47	Sizing and Management of Energy Storage Systems in Large-Scale Power Plants Using Price Control and Artificial Intelligence. Energies, 2021, 14, 3296.	1.6	7
48	New controllability criteria for 3-phase 4-wire inverters applied to shunt active power filters. , 0, , .		6
49	Digital Implementation Issues for a Three-Phase Power Converter Development Using a Repetitive Control Scheme. , 2007, , .		6
50	Direct Power Control for three-phase power converters under distorted input voltages. , 2009, , .		6
51	Direct active and reactive power control (DPQ) for a three phase synchronous rectifier. , 0, , .		5
52	Simple and advanced three dimensional spacevector modulation algorithm for four-leg multilevel converters topology. , 0, , .		4
53	Two-dimensional modulation technique for multilevel cascaded H-bridge converters. , 2009, , .		4
54	Wind Turbine Applications. , 2011, , 791-822.		4

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55	Powertrain EV synchronous reluctance motor design with redundant topology with novel control. IET Electric Power Applications, 2019, 13, 1647-1659.	1.1	4
56	Method for controlling voltage and frequency of the local offshore grid responsible for connecting large offshore commercial wind turbines with the rectifier diodeâ€based HVDCâ€link applied to an external controller. IET Electric Power Applications, 2017, 11, 1509-1516.	1.1	3
57	Optimal Modulation Method for DC-Link Control in Cascaded H-Bridge Multilevel Converters. , 2019, , .		3
58	An experimental neural controller implementing a VSC for a DC/DC PWM converter with power factor corrector. , 0, , .		2
59	Effective space-vector modulation algorithm for multilevel converters. , 0, , .		2
60	Space vector modulation for multilevel single-phase cascade converters avoiding the negative effects of the DC voltage unbalance. , 2008, , .		2
61	Fast Response Energy Storage Systems. Green Energy and Technology, 2013, , 367-427.	0.4	1
62	Synchronous reluctance sixâ€phase motor proved based EV powertrain as charger/discharger with redundant topology and ORS control. IET Electric Power Applications, 2019, 13, 1857-1870.	1.1	1
63	Wind Turbine Applications. , 2007, , 737-768.		0
64	A voltage measurement based control of a SSSC. , 2010, , .		0
65	Educational software interface for power electronic applications. , 2010, , .		0
66	New soft switched interface circuit with reduced switch count for stand-alone photovoltaic systems. , 2011, , .		0
67	Sistema de controle distribuÃdo para uma rede de turbinas eÃ³licas offshore conectado por um link HVDC baseado em retificador de diodo. , 0, , .		0