

Juan Manuel Carrasco

List of Publications by Year in descending order

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times ranked

6714
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi P2P Energy Trading Market, Integrating Energy Storage Systems and Used for Optimal Scheduling. IEEE Access, 2022, 10, 64302-64315.	2.6	8
2	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
3	Optimal Scheduling of Energy Storage Using A New Priority-Based Smart Grid Control Method. Energies, 2019, 12, 579.	1.6	14
4	Optimal Modulation Method for DC-Link Control in Cascaded H-Bridge Multilevel Converters. , 2019, , .		3
5	Synchronous reluctance six-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
6	Powertrain EV synchronous reluctance motor design with redundant topology with novel control. IET Electric Power Applications, 2019, 13, 1647-1659.	1.1	4
7	Method for controlling voltage and frequency of the local offshore grid responsible for connecting large offshore commercial wind turbines with the rectifier diode-based HVDC-link applied to an external controller. IET Electric Power Applications, 2017, 11, 1509-1516.	1.1	3
8	A New Fast Peak Current Controller for Transient Voltage Faults for Power Converters. Energies, 2016, 9, 1.	1.6	775
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	Fast Response Energy Storage Systems. Green Energy and Technology, 2013, , 367-427.	0.4	1
11	Decoupled Double Synchronous Reference Frame current controller for unbalanced grid voltage conditions. , 2012, , .		13
12	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
13	New soft switched interface circuit with reduced switch count for stand-alone photovoltaic systems. , 2011, , .		0
14	Recent advances on Energy Storage Systems. , 2011, , .		27
15	Wind Turbine Applications. , 2011, , 791-822.		4
16	Multidimensional Modulation Technique for Cascaded Multilevel Converters. IEEE Transactions on Industrial Electronics, 2011, 58, 412-420.	5.2	110
17	A voltage measurement based control of a SSSC. , 2010, , .		0
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	Energy Storage Systems for Transport and Grid Applications. IEEE Transactions on Industrial Electronics, 2010, 57, 3881-3895.	5.2	1,054
21	Model Predictive Control of a switched reluctance machine using discrete Space Vector Modulation. , 2010, , .		24
22	Comparison between FS-MPC control strategy for an UPS inverter application in α-β and abc frames. , 2010, , .		11
23	Educational software interface for power electronic applications. , 2010, , .		0
24	Two-dimensional modulation technique for multilevel cascaded H-bridge converters. , 2009, , .		4
25	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
26	Model Predictive Control with constant switching frequency using a Discrete Space Vector Modulation with virtual state vectors. , 2009, , .		137
27	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
28	Direct Power Control for three-phase power converters under distorted input voltages. , 2009, , .		6
29	Three-Dimensional Feedforward Space Vector Modulation Applied to Multilevel Diode-Clamped Converters. IEEE Transactions on Industrial Electronics, 2009, 56, 101-109.	5.2	76
30	Unidimensional Modulation Technique for Cascaded Multilevel Converters. IEEE Transactions on Industrial Electronics, 2009, 56, 2981-2986.	5.2	54
31	A dual-loop PI controller for a DC/DC full-bridge power converter with ZVS modulation. , 2009, , .		9
32	A Model-Based Direct Power Control for Three-Phase Power Converters. IEEE Transactions on Industrial Electronics, 2008, 55, 1647-1657.	5.2	168
33	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
34	Controller design for a single-phase two-cell multilevel cascade H-bridge converter. , 2008, , .		18
35	Space vector modulation for multilevel single-phase cascade converters avoiding the negative effects of the DC voltage unbalance. , 2008, , .		2
36	Wind Turbine Applications. , 2007, , 737-768.		0

#	ARTICLE	IF	CITATIONS
37	New Space Vector Modulation Technique for Single-Phase Multilevel Converters. , 2007, , .		21
38	Digital Implementation Issues for a Three-Phase Power Converter Development Using a Repetitive Control Scheme. , 2007, , .		6
39	Power conditioning of fuel cell systems in portable applications. International Journal of Hydrogen Energy, 2007, 32, 1559-1566.	3.8	25
40	Power Electronic Systems for the Grid Integration of Wind Turbines. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	27
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	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
43	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
44	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
45	Microprocessor and FPGA interfaces for in-system co-debugging in field programmable hybrid systems. Microprocessors and Microsystems, 2005, 29, 75-85.	1.8	16
46	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
47	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
48	A 3-D space vector modulation generalized algorithm for multilevel converters. IEEE Power Electronics Letters, 2003, 1, 110-114.	1.1	87
49	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
50	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
51	Implementation of a neural controller for the series resonant converter. IEEE Transactions on Industrial Electronics, 2002, 49, 628-639.	5.2	19
52	Effective algorithm for multilevel converters with very low computational cost. Electronics Letters, 2002, 38, 1398.	0.5	20
53	Analysis and experimentation of nonlinear adaptive controllers for the series resonant converter. IEEE Transactions on Power Electronics, 2000, 15, 536-544.	5.4	44
54	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

#	ARTICLE	IF	CITATIONS
55	An experimental neural controller implementing a VSC for a DC/DC PWM converter with power factor corrector. , 0, , .		2
56	Direct active and reactive power control (DPQ) for a three phase synchronous rectifier. , 0, , .		5
57	New controllability criteria for 3-phase 4-wire inverters applied to shunt active power filters. , 0, , .		6
58	New fast space-vector modulation for multilevel converters based on geometrical considerations. , 0, , .		25
59	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
60	Effective space-vector modulation algorithm for multilevel converters. , 0, , .		2
61	A SVM-3D generalized algorithm for multilevel converters. , 0, , .		30
62	Control of a three level converter used as a synchronous rectifier. , 0, , .		15
63	Modeling of a three level converter used in a synchronous rectifier application. , 0, , .		18
64	DSP-based doubly fed induction generator test bench using a back-to-back PWM converter. , 0, , .		13
65	Simple and advanced three dimensional spacevector modulation algorithm for four-leg multilevel converters topology. , 0, , .		4
66	Modeling of Five-Level Converter Used in a Synchronous Rectifier Application. , 0, , .		9
67	Sistema de controle distribuÃdo para uma rede de turbinas eÃ3licas offshore conectado por um link HVDC baseado em retificador de diodo. , 0, , .		0