José R Espinoza

List of Publications by Year
in descending order

236 papers	7,693 citations	101384 36 h-index	60497 81 g-index
236 all docs	236 docs citations	236 times ranked	4011 citing authors

#	Article	IF	Citations
1	State of the Art of Finite Control Set Model Predictive Control in Power Electronics. IEEE Transactions on Industrial Informatics, 2013, 9, 1003-1016.	7.2	1,425
2	PWM regenerative rectifiers: state of the art. IEEE Transactions on Industrial Electronics, 2005, 52, 5-22.	5.2	749
3	High-Performance Control Strategies for Electrical Drives: An Experimental Assessment. IEEE Transactions on Industrial Electronics, 2012, 59, 812-820.	5.2	408
4	Predictive Torque and Flux Control Without Weighting Factors. IEEE Transactions on Industrial Electronics, 2013, 60, 681-690.	5.2	346
5	Self-Tuning Virtual Synchronous Machine: A Control Strategy for Energy Storage Systems to Support Dynamic Frequency Control. IEEE Transactions on Energy Conversion, 2014, 29, 833-840.	3.7	328
6	Predictive Control of an Indirect Matrix Converter. IEEE Transactions on Industrial Electronics, 2009, 56, 1847-1853.	5.2	166
7	Multiobjective Switching State Selector for Finite-States Model Predictive Control Based on Fuzzy Decision Making in a Matrix Converter. IEEE Transactions on Industrial Electronics, 2013, 60, 589-599.	5.2	165
8	Improving passive filter compensation performance with active techniques. IEEE Transactions on Industrial Electronics, 2003, 50, 161-170.	5.2	146
9	Current-source converter on-line pattern generator switching frequency minimization. IEEE Transactions on Industrial Electronics, 1997, 44, 198-206.	5.2	138
10	A Comparative Assessment of Model Predictive Current Control and Space Vector Modulation in a Direct Matrix Converter. IEEE Transactions on Industrial Electronics, 2013, 60, 578-588.	5.2	132
11	Predictive Current Control With Input Filter Resonance Mitigation for a Direct Matrix Converter. IEEE Transactions on Power Electronics, 2011, 26, 2794-2803.	5.4	130
12	Current Control for an Indirect Matrix Converter With Filter Resonance Mitigation. IEEE Transactions on Industrial Electronics, 2012, 59, 71-79.	5.2	129
13	State variable decoupling and power flow control in PWM current-source rectifiers. IEEE Transactions on Industrial Electronics, 1998, 45, 78-87.	5.2	110
14	A Robust Phase-Locked Loop Algorithm to Synchronize Static-Power Converters With Polluted AC Systems. IEEE Transactions on Industrial Electronics, 2008, 55, 2185-2192.	5.2	110
15	Selective harmonic elimination and current/voltage control in current/voltage-source topologies: a unified approach. IEEE Transactions on Industrial Electronics, 2001, 48, 71-81.	5.2	104
16	Passivity-Based PI Control of Switched Power Converters. IEEE Transactions on Control Systems Technology, 2004, 12, 881-890.	3.2	102
17	Instantaneous Reactive Power Minimization and Current Control for an Indirect Matrix Converter Under a Distorted AC Supply. IEEE Transactions on Industrial Informatics, 2012, 8, 482-490.	7.2	88
18	A Novel Hybrid Finite Control Set Model Predictive Control Scheme With Reduced Switching. IEEE Transactions on Industrial Electronics, 2014, 61, 5912-5920.	5.2	82

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19	Control of a Matrix Converter With Imposed Sinusoidal Source Currents. IEEE Transactions on Industrial Electronics, 2012, 59, 1939-1949.	5.2	78
20	Regenerative Medium-Voltage AC Drive Based on a Multicell Arrangement With Reduced Energy Storage Requirements. IEEE Transactions on Industrial Electronics, 2005, 52, 171-180.	5.2	77
21	Surveying Solid-State Transformer Structures and Controls: Providing Highly Efficient and Controllable Power Flow in Distribution Grids. IEEE Industrial Electronics Magazine, 2020, 14, 56-70.	2.3	76
22	Decoupled Current Model and Control of Modular Multilevel Converters. IEEE Transactions on Industrial Electronics, 2015, 62, 5382-5392.	5.2	74
23	A current-source-inverter-fed induction motor drive system with reduced losses. IEEE Transactions on Industry Applications, 1998, 34, 796-805.	3.3	72
24	Design of a Discrete-Time Linear Control Strategy for a Multicell UPQC. IEEE Transactions on Industrial Electronics, 2012, 59, 3797-3807.	5.2	66
25	FPGA v/s DSP Performance Comparison for a VSC-Based STATCOM Control Application. IEEE Transactions on Industrial Informatics, 2013, 9, 1351-1360.	7.2	64
26	Digital Implementation of Selective Harmonic Elimination Techniques in Modular Current Source Rectifiers. IEEE Transactions on Industrial Informatics, 2013, 9, 1167-1177.	7.2	61
27	Control of Arm Capacitor Voltages in Modular Multilevel Converters. IEEE Transactions on Power Electronics, 2016, 31, 1774-1784.	5.4	56
28	Operating Experience of Shovel Drives for Mining Applications. IEEE Transactions on Industry Applications, 2004, 40, 664-671.	3.3	55
29	Review of predictive control methods to improve the input current of an indirect matrix converter. IET Power Electronics, 2014, 7, 886-894.	1.5	55
30	Selective Harmonic Elimination in Multimodule Three-Phase Current-Source Converters. IEEE Transactions on Power Electronics, 2010, 25, 44-53.	5.4	51
31	Imposed Sinusoidal Source and Load Currents for an Indirect Matrix Converter. IEEE Transactions on Industrial Electronics, 2012, 59, 3427-3435.	5.2	51
32	A New Modulation Method for a 13-Level Asymmetric Inverter Toward Minimum THD. IEEE Transactions on Industry Applications, 2014, 50, 1924-1933.	3.3	45
33	A simple control scheme for hybrid active power filter. IET Generation, Transmission and Distribution, 2002, 149, 485.	1.1	44
34	Methods of source current reference generation for predictive control in a direct matrix converter. IET Power Electronics, 2013, 6, 894-901.	1.5	44
35	A single-stage zero-voltage zero-current-switched full-bridge DC power supply with extended load power range. IEEE Transactions on Industrial Electronics, 1999, 46, 261-270.	5.2	43
36	Design of a Modular UPQC Configuration Integrating a Components Economical Analysis. IEEE Transactions on Power Delivery, 2009, 24, 1763-1772.	2.9	41

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37	All-on-Chip dq-Frame Based D-STATCOM Control Implementation in a Low-Cost FPGA. IEEE Transactions on Industrial Electronics, 2013, 60, 659-669.	5.2	41
38	On-line generation of gating signals for current source converter topologies. , 0, , .		39
39	Performance of a single-stage UPS system for single-phase trapezoidal-shaped AC-voltage supplies. IEEE Transactions on Power Electronics, 1998, 13, 912-923.	5.4	39
40	Predictive Controller for a Three-Phase/Single-Phase Voltage Source Converter Cell. IEEE Transactions on Industrial Informatics, 2014, 10, 1878-1889.	7.2	36
41	Model Predictive Control for Power Converters inÂa Distorted Three-Phase Power Supply. IEEE Transactions on Industrial Electronics, 2016, 63, 5838-5848.	5.2	35
42	Analysis, Design and Control of a Unified Power-Quality Conditioner Based on a Current-Source Topology. IEEE Transactions on Power Delivery, 2012, 27, 1727-1736.	2.9	34
43	Performance Evaluation of a Multicell Topology Implemented With Single-Phase Nonregenerative Cells Under Unbalanced Supply Voltages. IEEE Transactions on Industrial Electronics, 2007, 54, 2969-2978.	5.2	32
44	Predictive torque control with input PF correction applied to an induction machine fed by a matrix converter. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	32
45	High performance speed control methods for electrical machines: An assessment. , 2010, , .		31
46	A Simple Current Control Strategy for a Four-Leg Indirect Matrix Converter. IEEE Transactions on Power Electronics, 2015, 30, 2275-2287.	5.4	31
47	Finite-State Model Predictive Control With Integral Action Applied to a Single-Phase Z-Source Inverter. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 228-239.	3.7	30
48	A Systematic Controller-Design Approach for Neutral-Point-Clamped Three-Level Inverters. IEEE Transactions on Industrial Electronics, 2005, 52, 1589-1599.	5.2	29
49	Decoupled and Modular Harmonic Compensation for Multilevel STATCOMs. IEEE Transactions on Industrial Electronics, 2014, 61, 2743-2753.	5.2	29
50	Predictive control of the Indirect Matrix Converter with active damping. , 2009, , .		28
51	Predictive control of source and load currents in a direct matrix converter. , 2010, , .		28
52	Improving Power Quality in Cascade Multilevel Converters Based on Single-Phase Nonregenerative Power Cells. IEEE Transactions on Industrial Electronics, 2014, 61, 4498-4509.	5.2	28
53	Enhanced Predictive Control for a Wide Time-Variant Frequency Environment. IEEE Transactions on Industrial Electronics, 2016, 63, 5827-5837.	5.2	27
54	Behavior of the Predictive DTC Based Matrix Converter Under Unbalanced AC Supply. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2007, , .	0.0	26

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55	Predictive control of a direct matrix converter operating under an unbalanced AC source. , 2010, , .		25
56	Predictive current control in a current source inverter operating with low switching frequency. , 2013, , .		25
57	Stable Shortest Horizon FCS-MPC Output Voltage Control in Non-Minimum Phase Boost-Type Converters Based on Input-State Linearization. IEEE Transactions on Energy Conversion, 2021, 36, 1378-1391.	3.7	24
58	Operating Region of Single-Phase UPQCs. , 0, , .		23
59	Input Current Harmonics in a Regenerative Multicell Inverter With Single-Phase PWM Rectifiers. IEEE Transactions on Industrial Electronics, 2009, 56, 408-417.	5.2	23
60	Predictive current control with reactive power minimization in an indirect matrix converter. , 2010, , .		23
61	Three-phase series VAr compensation based on a voltage-controlled current source inverter with supplemental modulation index control. IEEE Transactions on Power Electronics, 1999, 14, 587-598.	5.4	22
62	Predictive control of a current source rectifier with imposed sinusoidal input currents. , 2013, , .		22
63	A Hybrid FCS-MPC With Low and Fixed Switching Frequency Without Steady-State Error Applied to a Grid-Connected CHB Inverter. IEEE Access, 2020, 8, 223637-223651.	2.6	22
64	Multi-Level Three-Phase Current Source Inverter based AC Drive for High Performance Applications. , 0, , .		21
65	Current control in matrix converters connected to polluted AC voltage supplies. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	21
66	Predictive control with active damping in a Direct Matrix Converter. , 2009, , .		19
67	MPC Algorithm With Reduced Computational Burden and Fixed Switching Spectrum for a Multilevel Inverter in a Photovoltaic System. IEEE Access, 2020, 8, 77405-77414.	2.6	19
68	Practical problems associated with the operation of ASDs based on active front end converters in power distribution systems. , 0, , .		18
69	A novel multi-level converter based on current source power cell. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	17
70	Current-source cascaded multilevel converters based on single-phase power cells. , 2013, , .		17
71	Integration of a large-scale photovoltaic plant using a multilevel converter topology and virtual synchronous generator control. , 2014, , .		17
72	Self-started voltage-source series-resonant converter for high-power induction heating and melting applications. IEEE Transactions on Industry Applications, 1998, 34, 518-525.	3.3	16

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73	Predictive torque and flux control of an induction machine fed by an indirect matrix converter with reactive power minimization. , 2010, , .		16
74	Reduction of common-mode voltage in an indirect matrix converter with imposed sinusoidal input/output waveforms. , 2012, , .		16
75	Predictive control of a current source converter operating with low switching frequency. , 2012, , .		16
76	Multiobjective Fuzzy Predictive Torque Control of an induction motor drive. , 2015, , .		15
77	DSP implementation of output voltage reconstruction in CSI-based converters. IEEE Transactions on Industrial Electronics, 1998, 45, 895-904.	5.2	14
78	Predictive torque and flux control of an induction machine fed by an indirect matrix converter. , 2010, , .		14
79	Predictive torque control of a multi-drive system fed by a six-leg indirect matrix converter. , 2013, , .		14
80	Analysis and Design of a Multicell Topology Based on Three-Phase/Single-Phase Current-Source Cells. IEEE Transactions on Power Electronics, 2016, 31, 6122-6133.	5.4	14
81	Input current harmonics in a regenerative multi-cell inverter with single-phase active rectifiers. , 0, , .		13
82	A Novel Multi-Level Three-Phase UPQC Topology based on Full-Bridge Single-Phase Cells. , 2007, , .		13
83	A novel multi-level topology based on current source power cells for high performance applications. , 2010, , .		13
84	Static power converter synchronization and control under varying frequency conditions. , 2012, , .		13
85	A Simple Self-Tuning Resonant Control Approach for Power Converters Connected to Micro-Grids With Distorted Voltage Conditions. IEEE Access, 2020, 8, 216018-216028.	2.6	13
86	Modeling Issues in Three-Phase Current Source Rectifiers that use Damping Resistors. , 2006, , .		12
87	A Robust PLL Algorithm to Synchronize Static Power Converters with Polluted AC Systems. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	12
88	A novel multi-level CSI based topology with inter-cell magnetic couplings for minimum DC storage components. , 2010, , .		12
89	A High-Performance Multicell Topology Based on Single-Phase Power Cells for Three-Phase Systems Operating Under Unbalanced AC Mains and Asymmetrical Loads. IEEE Transactions on Industrial Electronics, 2010, 57, 2730-2738.	5.2	12
90	A multiobjective ranking based finite states model predictive control scheme applied to a direct matrix converter. , 2010, , .		12

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91	Multi-cell topology based on voltage-source converters with a reduced DC Capacitor by means of a predictive control scheme. , 2012, , .		12
92	Decoupled control of a Unified Power Quality Conditioner based on a current source topology for fast AC mains disturbance compensation. , 2010, , .		11
93	Analysis and design of a Cascaded H-Bridge topology based on current-source inverters. , 2013, , .		11
94	Operating region of a power cell in a CHB based topology operating at reduced second harmonic. , 2016, , .		11
95	State feedback control assisted by a gain scheduling scheme for three-level NPC VSC-HVDC transmission systems. Electric Power Systems Research, 2018, 157, 227-237.	2.1	11
96	On-line filtering reactance identification in voltage-source three-phase active-front-end rectifiers. , 0, , .		10
97	Selective Harmonic Elimination in Multi-Modules Three-Phase Current-Source Converters. , 2006, , .		10
98	A simple predictive voltage control method with unity displacement power factor for four-leg indirect matrix converters. , 2012, , .		10
99	A simple predictive current control of a single-phase matrix converter. , 2013, , .		10
100	Very Low Sampling Frequency Model Predictive Control for Power Converters in the Medium and High-Power Range Applications. Energies, 2021, 14, 199.	1.6	10
101	Compensated carrier PWM synchronization: a novel method to achieve self-regulation and AC unbalance compensation in AC fed converters. IEEE Transactions on Power Electronics, 1992, 7, 342-348.	5.4	9
102	Concepts of decoupled control for a shunt active filter based on multilevel current source converters. , 2010, , .		9
103	Discrete Nonlinear Control based on a double dq Transform of a Multi-Cell UPQC. , 2011, , .		9
104	A novel modulation technique for asymmetric multi-cell inverters of 27-level without regeneration. , 2012, , .		9
105	Finite Control Set - Model Predictive Control applied to multicell rectifiers. , 2013, , .		9
106	Switching losses analysis of an asymmetric multilevel Shunt Active Power Filter. , 2013, , .		9
107	Investigation on the limitation of the BTB-VSC converter to control the active and reactive power flow. Electric Power Systems Research, 2017, 143, 149-162.	2.1	9
108	Long-length horizons dynamic matrix predictive control for a MMC inverter. Electric Power Systems Research, 2019, 168, 137-145.	2.1	9

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109	Analysis and control strategy for a current-source based D-STATCOM towards minimum losses. International Journal of Electrical Power and Energy Systems, 2020, 116, 105532.	3.3	9
110	Finite Control Set MPC with Fixed Switching Frequency Applied to a Grid Connected Single-Phase Cascade H-Bridge Inverter. Energies, 2020, 13, 5475.	1.6	9
111	Application of fuzzy decision making to the switching state selection in the predictive control of a Direct Matrix Converter. , 2011, , .		8
112	Improved control scheme towards reduced DC link inductors in a Multi-Cell Topology based on Current Source Converters. , 2012, , .		8
113	On the control of a grid-connected photovoltaic plant under non-uniform insolation. , 2014, , .		8
114	An Operating Condition-Based Scheme to Alternate Between Control Strategies for Improved Steady-State and Transient Behavior. IEEE Transactions on Industrial Informatics, 2015, 11, 1246-1254.	7.2	8
115	Performance and Control Strategy of Real-Time Simulation of a Three-Phase Solid-State Transformer. Applied Sciences (Switzerland), 2019, 9, 789.	1.3	8
116	Analysis and Design of Grid-Tied Inverter With LCL Filter. IEEE Open Journal of Power Electronics, 2020, 1, 161-169.	4.0	8
117	A modular approach for integrating harmonic cancellation in a multi-cell based UPQC. , 2008, , .		7
118	Unified Power Quality Conditioner based on current source converters for harmonic mitigation using a decoupled control strategy. , 2011, , .		7
119	Asymmetric multilevel STATCOM to compensate reactive power and current harmonics. , 2012, , .		7
120	Voltage regulation in mine power distribution systems: Problems and solutions. , 2014, , .		7
121	Grid connected PV system with maximum power point estimation based on reference cells. , 2015, , .		7
122	Finite control set model predictive control with reduced switching frequency applied to multi-cell rectifiers. , 2015, , .		7
123	High dynamic and static performance FCS-MPC strategy for static power converters. , 2016, , .		7
124	A Novel Simplified Implementation of Finite-Set Model Predictive Control for Power Converters. IEEE Access, 2021, 9, 96114-96124.	2.6	7
125	Modeling and control of a high voltage direct current power transmission system based on active voltage source converters. , 0, , .		6
126	Multi-Level Three-Phase Current Source Inverter based Series Voltage Compensator. , 0, , .		6

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127	Predictive control of an indirect matrix converter. , 2008, , .		6
128	Modular current source AC-Drive: A simple control scheme. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	6
129	A New Hybrid Filter Topology for Sub and Inter-Harmonic Attenuation in Cycloconverter-Fed Drives Applications. , 2009, , .		6
130	Improving power quality in cascade multilevel converters based on single-phase non-regenerative power cells. , 2011, , .		6
131	Predictive current control of a four-leg indirect matrix converter with imposed source currents and common-mode voltage reduction. , 2013, , .		6
132	On the DC inductors size reduction in a multi-cell topology based on current source converters by means of magnetic couplings. , 2013, , .		6
133	A new modulation technique for 15-level asymmetric inverter operating with minimum THD. , 2013, , .		6
134	An efficiency comparison between a 18 pulses diode rectifier and a multi-cell AFE rectifier operating with FCS &#x2014; MPC. , 2014, , .		6
135	Capacitor voltage ripple control based on decoupled power analysis in MMC. , 2017, , .		6
136	Shortest horizon FCS-MPC output voltage tracking in non-minimum phase boost-type converters. , 2019, , .		6
137	DSP-based space-vector PWM pattern generators for three-phase current source rectifiers and inverters. Canadian Journal of Electrical and Computer Engineering, 1997, 22, 155-161.	1.5	5
138	Improvement Issues on the Input Filter Design for PWM-CSR that are SHE Modulated. , 0, , .		5
139	A Mixed LQRI / PI based Control for Three-Phase UPQCs. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	5
140	Operating Regions Comparison of VSC-based Custom Power Devices. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	5
141	Design of a discrete-time linear control scheme for a modular UPQC. , 2010, , .		5
142	Systematic design comparison of discrete-time linear controllers for a DSTATCOM. , 2010, , .		5
143	Reducing harmonics and DC-Link capacitors in cascaded multilevel converters using inter-cell magnetic couplings. , 2012, , .		5
144	Control of an induction machine fed by an indirect matrix converter with unity displacement power factor operating with an unbalanced AC-supply. , 2012, , .		5

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145	Discrete synchronism methods for polluted single phase and unbalanced three-phase systems. , 2014, , .		5
146	Review of current control techniques for a cascaded H-Bridge STATCOM. , 2015, , .		5
147	Global Maximum Power Point Tracking Scheme on a Partially Shaded Photovoltaic Array. , 2018, , .		5
148	Distribution Network Hybrid Transformer for Load Current and Grid Voltage Compensation. , 2019, , .		5
149	Modeling and Control of a Hybrid Transformer based on a Cascaded H-bridge Multilevel Converter. , 2020, , .		5
150	Modelling and implementation of space vector PWM techniques in active filter applications. , 0, , .		4
151	Input current harmonics in a regenerative multicell inverter with single phase active rectifiers. , 0, , .		4
152	Passivity-based PI control of switched power converters. , 2003, , .		4
153	DC Link Voltage Unbalance Control in Three-Phase UPQCs based on NPC Topologies. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2007, , .	0.0	4
154	A reactive power compensator topology based on multilevel single-phase NPC converters. , 2010, , .		4
155	Refined control of an Unified Power Quality Conditioner under nonlinear and asymmetrical loads. , 2010, , .		4
156	Inverters. , 2011, , 357-408.		4
157	Modular harmonic cancellation in a multilevel STATCOM. , 2011, , .		4
158	A comprehensive control strategy for an asymmetric multilevel Shunt Active Power Filter. , 2013, , .		4
159	Predictive control for static power converters working in wide frequency ranges. , 2013, , .		4
160	A Simple Predictive Method to Estimate Flicker. IEEE Transactions on Industry Applications, 2014, 50, 2150-2155.	3.3	4
161	Control of Multilevel STATCOMs. Power Systems, 2015, , 265-311.	0.3	4
162	Selective harmonic elimination for a 27-level asymmetric multilevel converter. , 2017, , .		4

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163	An Efficiency Analysis of 27 Level Single-Phase Asymmetric Inverter without Regeneration. Energies, 2021, 14, 1459.	1.6	4
164	An integrated three-phase voltage regulated current source inverter topology. , 0, , .		3
165	Improving passive filter compensation performance with active techniques. , 0, , .		3
166	Analysis of a Multi-Cell Converter under Unbalanced AC Source. , 0, , .		3
167	A Non-Linear Control Strategy for Instantaneous Power Factor Correction in 3- 4-Wire Electrical Systems under Asymmetrical and Non-Linear Loads. , 2006, , .		3
168	Selecting between linear and nonlinear control in a dynamic voltage restorer. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	3
169	A convenient form to connect single-phase cells to multi-pulse transformers in unbalanced systems. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	3
170	Predictive voltage control with imposed source current waveforms in an indirect matrix converter. , 2013, , .		3
171	Predictive control of two parallel induction machines fed by a six-leg indirect matrix converter under an unbalanced ac-supply. , 2013, , .		3
172	Cascaded H-Bridge topologies comparison for multi-cell current-source inverters under different DC inductor size reduction methods. , 2014, , .		3
173	Predictive control of modular current source converters. , 2014, , .		3
174	Operating region and control for power converters connected to a variable frequency and amplitude voltage grid supply. , 2015, , .		3
175	Study of Reactive Power Compensation Capabilities and LC Filter Design for a Multilevel Three-Phase Current-Source D-STATCOM. , 2018, , .		3
176	Control of Solid State Transformer based on Modular Multilevel Converters with Interconnecting Dual Active Bridges. , 2019, , .		3
177	Electrical energy consumption characterization of open-pit mining and mineral processing operations towards the use of renewable energy sources. , 2019, , .		3
178	Design and Implementation of a Parallel-Connected Fault Current Attenuator for Power Distribution Systems. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, , 1-1.	3.7	3
179	Multicell AFE Rectifier Managed by Finite Control Setâ€"Model Predictive Control. IEEE Access, 2021, 9, 137782-137792.	2.6	3
180	A systematic controller design approach for neutral-point-clamped three-level inverters. , 0, , .		2

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181	AC Filter Voltage Reconstruction in PWM~CSR. , 0, , .		2
182	Multiobjective LMI-based controller design for reactive power compensation in a DSTATCOM. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	2
183	Improvements in harmonic mitigation for multilevel AC-Drives for high power applications. , 2010, , .		2
184	Design of modular rectifiers with magnetic AC coupling for large current and low voltage applications. , 2011, , .		2
185	Comparison of CSI and VSI based modular rectifiers with magnetic AC coupling for large current and low voltage applications. , 2012, , .		2
186	A novel hybrid finite control set model predictive control scheme with reduced switching. , 2013, , .		2
187	Resonant control for H-Bridge topologies based on single-phase Current-Source Inverters. , 2014, , .		2
188	Resonant control for multi-cell cascaded H-Bridge topologies based on current source inverters. , 2014, , .		2
189	Nonlinear control and model predictive control applied to a multi-cell AFE rectifier. , 2015, , .		2
190	FCS - MPC with reduced switching frequency applied to a multi - cell AFE rectifier with improved transient behavior. , 2016, , .		2
191	A reactive power compensation method for a smart grid connected inverter using a residential PV lSystem. , 2017, , .		2
192	Fast MPC Algorithm for a Grid Tied Photovoltaic System based on a Multilevel Inverter. , 2019, , .		2
193	Optimized use of selective harmonic elimination techniques for three-phase AC/DC converters for high power applications. , 0, , .		1
194	Operating experience of shovel drives for mining applications. , 0, , .		1
195	Inverters. , 2007, , 353-404.		1
196	A multi-cell unified power quality conditioner that operates with asymmetrical DC links voltages for minimum THD. , 2009, , .		1
197	A simple predictive method to estimate flicker. , 2013, , .		1
198	Introduction to the Special Section on Digital Control Systems in Power Electronics and Electrical Drivesâ€"Part II. IEEE Transactions on Industrial Electronics, 2013, 60, 575-577.	5.2	1

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199	Guest Editorial Special Section on Digital Control Systems in Power Electronics and Electrical Drives - Part III. IEEE Transactions on Industrial Informatics, 2013, 9, 587-588.	7.2	1
200	Predictive torque control of a multi-drive system based on a two-stage six-leg matrix converter with unity input power factor. , 2013, , .		1
201	Operating region comparison of symmetric and asymmetric Multilevel Shunt Active Power Filters. , 2014, , .		1
202	Two predictive control techniques for output voltage control and improvement of the source currents in an indirect matrix converter. , 2014, , .		1
203	Resonant control for power converters connected to weak and micro grid systems with variant frequency. , 2016, , .		1
204	Multivariable control for a three-phase rectifier based on deadbeat algorithm. , 2016, , .		1
205	Discrete Resonant Control for wide frequency range operation of power converters. , 2016, , .		1
206	Finite control set model predictive control assisted by a linear controller for true parameter uncertainty compensation. , 2017, , .		1
207	Using the DC-link capacitor as a rotating inertia in a three phase PV system. , 2017, , .		1
208	Non-linear control and FCS â€" MPC applied to multi â€" Cell AFE rectifier with efficient behavior in steady state. , 2017, , .		1
209	Study of Reactive Power Compensation Capabilities and LC Filter Design for a Three-Phase Current-Source STATCOM. , 2018, , .		1
210	PV Farm Operation withIndependent Reactive Power Compensation Regardless of the Active Power Level Generation. , 2018, , .		1
211	Finite Control Setâ€"Model Predictive Control with Non-Spread Spectrum and Reduced Switching Frequency Applied to Multi-Cell Rectifiers. Energies, 2021, 14, 6045.	1.6	1
212	A Comparative Analysis in Asymmetric Inverters Non - Regenerative. , 2018, , .		1
213	Fast-Model Predictive Control for a Grid-Tie Photovoltaic System. , 2020, , .		1
214	FCSâ€"MPC with Nonlinear Control Applied to a Multicell AFE Rectifier. Sensors, 2022, 22, 4100.	2.1	1
215	Asynchronous bidirectional direct frequency converter controlled by space vectors. , 0, , .		0
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