

Pablo Lezana

List of Publications by Year in descending order

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65
papers

5,272
citations

236925

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454955

30
g-index

65
all docs

65
docs citations

65
times ranked

3035
citing authors

#	ARTICLE	IF	CITATIONS
1	Predictive Current Control of a Voltage Source Inverter. IEEE Transactions on Industrial Electronics, 2007, 54, 495-503.	7.9	1,269
2	PWM regenerative rectifiers: state of the art. IEEE Transactions on Industrial Electronics, 2005, 52, 5-22.	7.9	749
3	Survey on Fault Operation on Multilevel Inverters. IEEE Transactions on Industrial Electronics, 2010, 57, 2207-2218.	7.9	321
4	Operation of a Medium-Voltage Drive Under Faulty Conditions. IEEE Transactions on Industrial Electronics, 2005, 52, 1080-1085.	7.9	245
5	Cascaded Multilevel Inverter With Regeneration Capability and Reduced Number of Switches. IEEE Transactions on Industrial Electronics, 2008, 55, 1059-1066.	7.9	197
6	Model Predictive Control of an Asymmetric Flying Capacitor Converter. IEEE Transactions on Industrial Electronics, 2009, 56, 1839-1846.	7.9	186
7	Extended Operation of Cascade Multicell Converters Under Fault Condition. IEEE Transactions on Industrial Electronics, 2009, 56, 2697-2703.	7.9	181
8	Fault Detection on Multicell Converter Based on Output Voltage Frequency Analysis. IEEE Transactions on Industrial Electronics, 2009, 56, 2275-2283.	7.9	179
9	Finite-Control-Set Model Predictive Control With Improved Steady-State Performance. IEEE Transactions on Industrial Informatics, 2013, 9, 658-667.	11.3	176
10	Large Current Rectifiers: State of the Art and Future Trends. IEEE Transactions on Industrial Electronics, 2005, 52, 738-746.	7.9	148
11	Multicarrier PWM With DC-Link Ripple Feedforward Compensation for Multilevel Inverters. IEEE Transactions on Power Electronics, 2008, 23, 52-59.	7.9	142
12	Selective Harmonic Elimination Model Predictive Control for Multilevel Power Converters. IEEE Transactions on Power Electronics, 2017, 32, 2416-2426.	7.9	111
13	Level-shifted PWM for Cascaded Multilevel Inverters with Even Power Distribution. , 2007, , .		100
14	Predictive control of three-phase inverter. Electronics Letters, 2004, 40, 561.	1.0	89
15	Implementation and Control of a Hybrid Multilevel Converter With Floating DC Links for Current Waveform Improvement. IEEE Transactions on Industrial Electronics, 2011, 58, 2304-2312.	7.9	84
16	Zero-Steady-State-Error Input-Current Controller for Regenerative Multilevel Converters Based on Single-Phase Cells. IEEE Transactions on Industrial Electronics, 2007, 54, 733-740.	7.9	82
17	High-voltage multilevel converter with regeneration capability. IEEE Transactions on Industrial Electronics, 2002, 49, 839-846.	7.9	77
18	Regenerative Medium-Voltage AC Drive Based on a Multicell Arrangement With Reduced Energy Storage Requirements. IEEE Transactions on Industrial Electronics, 2005, 52, 171-180.	7.9	77

#	ARTICLE	IF	CITATIONS
19	Improvement of Post-Fault Performance of a Cascaded H-bridge Multilevel Inverter. IEEE Transactions on Industrial Electronics, 2017, 64, 2779-2788.	7.9	69
20	Hybrid Multicell Converter: Topology and Modulation. IEEE Transactions on Industrial Electronics, 2011, 58, 3938-3945.	7.9	66
21	Predictive power control of an AC/DC/AC converter. , 0, , .		63
22	Switched Model Predictive Control for Improved Transient and Steady-State Performance. IEEE Transactions on Industrial Informatics, 2015, 11, 968-977.	11.3	63
23	Mixed Multicell Cascaded Multilevel Inverter. , 2007, , .		49
24	Resonances in a High-Power Active-Front-End Rectifier System. IEEE Transactions on Industrial Electronics, 2005, 52, 482-488.	7.9	39
25	Control Scheme for an Induction Motor Fed by a Cascade Multicell Converter Under Internal Fault. IEEE Transactions on Industrial Electronics, 2014, 61, 5948-5955.	7.9	39
26	A Method to Eliminate Steady-State Error of Model Predictive Control in Power Electronics. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 2525-2530.	5.4	38
27	Dead-Time and Semiconductor Voltage Drop Compensation for Cascaded H-Bridge Converters. IEEE Transactions on Industrial Electronics, 2016, 63, 7833-7842.	7.9	36
28	Model-Predictive-Control-Based Capacitor Voltage Balancing Strategies for Modular Multilevel Converters. IEEE Transactions on Industrial Electronics, 2019, 66, 2432-2443.	7.9	33
29	Predictive direct torque control of an induction motor fed by a matrix converter. , 2007, , .		24
30	Operation of regenerative Cascade Multicell Converter under fault condition. , 2008, , .		23
31	Input Current Harmonics in a Regenerative Multicell Inverter With Single-Phase PWM Rectifiers. IEEE Transactions on Industrial Electronics, 2009, 56, 408-417.	7.9	23
32	Predictive Optimal Switching Sequence Direct Power Control for Grid-Tied 3L-NPC Converters. IEEE Transactions on Industrial Electronics, 2021, 68, 8561-8571.	7.9	23
33	Steady-state issues with finite control set model predictive control. , 2009, , .		21
34	Finite Control Set Model Predictive Control reduced computational cost applied to a Flying Capacitor converter. , 2017, , .		21
35	Phase-Disposition PWM Implementation for a Hybrid Multicell Converter. IEEE Transactions on Industrial Electronics, 2013, 60, 1936-1942.	7.9	20
36	Novel cell based on reduced single-phase active front end for multicell converters. , 2005, , .		14

#	ARTICLE	IF	CITATIONS
37	Dual-stage model predictive control for Flying Capacitor Converters. , 2013, , .		14
38	Input current harmonics in a regenerative multi-cell inverter with single-phase active rectifiers. , 0, , .		13
39	A fast and simple method to detect short circuit fault in cascaded H-bridge multilevel inverter. , 2015, , .		13
40	Sequential Phase-Shifted Model Predictive Control for multicell power converters. , 2017, , .		13
41	Fault Detection on Multicell Converter Based on Output Voltage Frequency Analysis. , 2006, , .		11
42	Predictive control algorithm robustness for achieving fault tolerance in multicell converters. , 2008, , .		11
43	Control of an hybrid multilevel inverter for current waveform improvement. , 2008, , .		10
44	High Power Synchronous Machine fed by a Cascaded Regenerative Inverter. , 2008, , .		10
45	Closed-loop SHE-PWM technique for power converters through Model Predictive Control. , 2015, , .		10
46	Sequential Phase-Shifted Model Predictive Control for a Single-Phase Five-Level H-bridge Flying Capacitor Converter. , 2018, , .		10
47	Sequential Phase-Shifted Model Predictive Control for a Five-Level Flying Capacitor Converter. , 2019, , .		10
48	A decision algorithm to select a proper control method for a cascaded multilevel inverter under faulty condition. , 2015, , .		8
49	Dual-Stage Control Strategy for a Flying Capacitor Converter Based on Model Predictive and Linear Controllers. IEEE Transactions on Industrial Informatics, 2022, 18, 2203-2212.	11.3	8
50	A novel modulation technique for a multilevel hybrid converter with floating capacitors. , 2010, , .		7
51	Hybrid multilevel inverter drive with synchronous modulation and current waveform improvement. , 2009, , .		6
52	Predictive control of an Asymmetric Multicell Converter with floating cells. , 2010, , .		6
53	A switched Model Predictive Control formulation for Flying Capacitor Converters. , 2012, , .		6
54	Improved steady state behavior of finite control set model predictive control applied to a flying capacitor converter. , 2016, , .		5

#	ARTICLE	IF	CITATIONS
55	Quick Diagnosis of Short Circuit Faults in Cascaded H-Bridge Multilevel Inverters using FPGA. Journal of Power Electronics, 2017, 17, 56-66.	1.5	5
56	Input current harmonics in a regenerative multicell inverter with single phase active rectifiers. , 0, , .		4
57	Zero steady-state error input current controller for regenerative multilevel converters based on single-phase cells. , 2005, , .		3
58	Control of an induction machine fed by a Cascade Multicell converter under fault. , 2009, , .		3
59	Single-phase Controlled Rectifiers. , 2011, , 183-204.		3
60	A simple modulation strategy for a Flying Capacitor converter using predictive control. , 2016, , .		3
61	A novel Capacitor Voltage Balancing strategy for Modular Multilevel Converters. , 2017, , .		2
62	A simple modulation strategy for a Reduced Multilevel Converter using Predictive Control. , 2019, , .		1
63	Single-phase Controlled Rectifiers. , 2007, , 179-200.		0
64	Optimal Switching Sequence MPC for Hybrid Flying Capacitor Inverter. , 2021, , .		0
65	Space Vector Modulation for a 5-level Reduced Multilevel Converter with capacitor balancing. , 2021, , .		0