

Jose R Rodriguez

List of Publications by Year in descending order

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650
papers

59,509
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3531

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229
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681
all docs

681
docs citations

681
times ranked

11712
citing authors

#	ARTICLE	IF	CITATIONS
1	Multilevel inverters: a survey of topologies, controls, and applications. IEEE Transactions on Industrial Electronics, 2002, 49, 724-738.	7.9	5,307
2	Recent Advances and Industrial Applications of Multilevel Converters. IEEE Transactions on Industrial Electronics, 2010, 57, 2553-2580.	7.9	3,160
3	Multilevel Voltage-Source-Converter Topologies for Industrial Medium-Voltage Drives. IEEE Transactions on Industrial Electronics, 2007, 54, 2930-2945.	7.9	1,938
4	A Survey on Cascaded Multilevel Inverters. IEEE Transactions on Industrial Electronics, 2010, 57, 2197-2206.	7.9	1,888
5	The age of multilevel converters arrives. IEEE Industrial Electronics Magazine, 2008, 2, 28-39.	2.6	1,630
6	Matrix converters: a technology review. IEEE Transactions on Industrial Electronics, 2002, 49, 276-288.	7.9	1,597
7	Model Predictive Control—A Simple and Powerful Method to Control Power Converters. IEEE Transactions on Industrial Electronics, 2009, 56, 1826-1838.	7.9	1,578
8	A Survey on Neutral-Point-Clamped Inverters. IEEE Transactions on Industrial Electronics, 2010, 57, 2219-2230.	7.9	1,459
9	Predictive Control in Power Electronics and Drives. IEEE Transactions on Industrial Electronics, 2008, 55, 4312-4324.	7.9	1,441
10	State of the Art of Finite Control Set Model Predictive Control in Power Electronics. IEEE Transactions on Industrial Informatics, 2013, 9, 1003-1016.	11.3	1,425
11	Model Predictive Control for Power Converters and Drives: Advances and Trends. IEEE Transactions on Industrial Electronics, 2017, 64, 935-947.	7.9	1,305
12	Predictive Current Control of a Voltage Source Inverter. IEEE Transactions on Industrial Electronics, 2007, 54, 495-503.	7.9	1,269
13	Circuit Topologies, Modeling, Control Schemes, and Applications of Modular Multilevel Converters. IEEE Transactions on Power Electronics, 2015, 30, 4-17.	7.9	1,129
14	Medium-Voltage Multilevel Converters—State of the Art, Challenges, and Requirements in Industrial Applications. IEEE Transactions on Industrial Electronics, 2010, 57, 2581-2596.	7.9	1,093
15	Multilevel Converters: An Enabling Technology for High-Power Applications. Proceedings of the IEEE, 2009, 97, 1786-1817.	21.3	970
16	Delay Compensation in Model Predictive Current Control of a Three-Phase Inverter. IEEE Transactions on Industrial Electronics, 2012, 59, 1323-1325.	7.9	896
17	Model Predictive Control: A Review of Its Applications in Power Electronics. IEEE Industrial Electronics Magazine, 2014, 8, 16-31.	2.6	894
18	PWM regenerative rectifiers: state of the art. IEEE Transactions on Industrial Electronics, 2005, 52, 5-22.	7.9	749

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19	Overview of Multi-MW Wind Turbines and Wind Parks. IEEE Transactions on Industrial Electronics, 2011, 58, 1081-1095.	7.9	726
20	Control of a Single-Phase Cascaded H-Bridge Multilevel Inverter for Grid-Connected Photovoltaic Systems. IEEE Transactions on Industrial Electronics, 2009, 56, 4399-4406.	7.9	650
21	Model Predictive Control of an Inverter With Output LCL Filter for UPS Applications. IEEE Transactions on Industrial Electronics, 2009, 56, 1875-1883.	7.9	552
22	A Review of Control and Modulation Methods for Matrix Converters. IEEE Transactions on Industrial Electronics, 2012, 59, 58-70.	7.9	510
23	Guidelines for weighting factors design in Model Predictive Control of power converters and drives. , 2009, , .		490
24	Predictive Control of a Three-Phase Neutral-Point-Clamped Inverter. IEEE Transactions on Industrial Electronics, 2007, 54, 2697-2705.	7.9	482
25	Review of Three-Phase PWM AC-AC Converter Topologies. IEEE Transactions on Industrial Electronics, 2011, 58, 4988-5006.	7.9	459
26	Model Predictive Control of Multilevel Cascaded H-Bridge Inverters. IEEE Transactions on Industrial Electronics, 2010, 57, 2691-2699.	7.9	449
27	Reactive Power Compensation Technologies: State-of-the-Art Review. Proceedings of the IEEE, 2005, 93, 2144-2164.	21.3	421
28	Direct Power Control of an AFE Using Predictive Control. IEEE Transactions on Power Electronics, 2008, 23, 2516-2523.	7.9	416
29	High-Performance Control Strategies for Electrical Drives: An Experimental Assessment. IEEE Transactions on Industrial Electronics, 2012, 59, 812-820.	7.9	408
30	Predictive Torque Control of Induction Machines Based on State-Space Models. IEEE Transactions on Industrial Electronics, 2009, 56, 1916-1924.	7.9	383
31	Model Predictive Control: MPC's Role in the Evolution of Power Electronics. IEEE Industrial Electronics Magazine, 2015, 9, 8-21.	2.6	383
32	Predictive Torque and Flux Control Without Weighting Factors. IEEE Transactions on Industrial Electronics, 2013, 60, 681-690.	7.9	346
33	The Essential Role and the Continuous Evolution of Modulation Techniques for Voltage-Source Inverters in the Past, Present, and Future Power Electronics. IEEE Transactions on Industrial Electronics, 2016, 63, 2688-2701.	7.9	343
34	Predictive Current Control Strategy With Imposed Load Current Spectrum. IEEE Transactions on Power Electronics, 2008, 23, 612-618.	7.9	342
35	Comparative Evaluation of Three-Phase AC-AC Matrix Converter and Voltage DC-Link Back-to-Back Converter Systems. IEEE Transactions on Industrial Electronics, 2012, 59, 4487-4510.	7.9	322
36	Survey on Fault Operation on Multilevel Inverters. IEEE Transactions on Industrial Electronics, 2010, 57, 2207-2218.	7.9	321

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37	Control Strategies Based on Symmetrical Components for Grid-Connected Converters Under Voltage Dips. IEEE Transactions on Industrial Electronics, 2009, 56, 2162-2173.	7.9	312
38	Technological Issues and Industrial Application of Matrix Converters: A Review. IEEE Transactions on Industrial Electronics, 2013, 60, 4260-4271.	7.9	299
39	Model-Based Predictive Direct Control Strategies for Electrical Drives: An Experimental Evaluation of PTC and PCC Methods. IEEE Transactions on Industrial Informatics, 2015, 11, 671-681.	11.3	293
40	Analysis of Finite-Control-Set Model Predictive Current Control With Model Parameter Mismatch in a Three-Phase Inverter. IEEE Transactions on Industrial Electronics, 2016, 63, 3100-3107.	7.9	284
41	Powering the Future of Industry: High-Power Adjustable Speed Drive Topologies. IEEE Industry Applications Magazine, 2012, 18, 26-39.	0.4	268
42	Operation of a Medium-Voltage Drive Under Faulty Conditions. IEEE Transactions on Industrial Electronics, 2005, 52, 1080-1085.	7.9	245
43	Current-Source Converter and Cycloconverter Topologies for Industrial Medium-Voltage Drives. IEEE Transactions on Industrial Electronics, 2008, 55, 2786-2797.	7.9	235
44	Model Predictive Current Control of Two-Level Four-Leg Invertersâ€”Part I: Concept, Algorithm, and Simulation Analysis. IEEE Transactions on Power Electronics, 2013, 28, 3459-3468.	7.9	221
45	Improved Active Power Filter Performance for Renewable Power Generation Systems. IEEE Transactions on Power Electronics, 2014, 29, 687-694.	7.9	210
46	Predictive Torque Control for Inverter-Fed Induction Machines. IEEE Transactions on Industrial Electronics, 2007, 54, 1073-1079.	7.9	208
47	Predictive Control of ACâ€”AC Modular Multilevel Converters. IEEE Transactions on Industrial Electronics, 2012, 59, 2832-2839.	7.9	202
48	On the Efficiency of Voltage Source and Current Source Inverters for High-Power Drives. IEEE Transactions on Industrial Electronics, 2008, 55, 1771-1782.	7.9	200
49	Cascaded Multilevel Inverter With Regeneration Capability and Reduced Number of Switches. IEEE Transactions on Industrial Electronics, 2008, 55, 1059-1066.	7.9	197
50	Assessing Finite-Control-Set Model Predictive Control: A Comparison with a Linear Current Controller in Two-Level Voltage Source Inverters. IEEE Industrial Electronics Magazine, 2014, 8, 44-52.	2.6	189
51	Robustness Improvement of Predictive Current Control Using Prediction Error Correction for Permanent-Magnet Synchronous Machines. IEEE Transactions on Industrial Electronics, 2016, 63, 3458-3466.	7.9	187
52	A Very Simple Strategy for High-Quality Performance of AC Machines Using Model Predictive Control. IEEE Transactions on Power Electronics, 2019, 34, 794-800.	7.9	186
53	Predictive Torque Control of an Induction Machine Fed by a Matrix Converter With Reactive Input Power Control. IEEE Transactions on Power Electronics, 2010, 25, 1426-1438.	7.9	185
54	Model predictive control of microgrids â€” An overview. Renewable and Sustainable Energy Reviews, 2021, 136, 110422.	16.4	182

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55	Cascaded H-bridge multilevel converter multistring topology for large scale photovoltaic systems. , 2011, , .		181
56	Fault Detection on Multicell Converter Based on Output Voltage Frequency Analysis. IEEE Transactions on Industrial Electronics, 2009, 56, 2275-2283.	7.9	179
57	High-Performance Motor Drives. IEEE Industrial Electronics Magazine, 2011, 5, 6-26.	2.6	179
58	High-Performance Torque and Flux Control for Multilevel Inverter Fed Induction Motors. IEEE Transactions on Power Electronics, 2007, 22, 2116-2123.	7.9	177
59	Predictive Approach to Increase Efficiency and Reduce Switching Losses on Matrix Converters. IEEE Transactions on Power Electronics, 2009, 24, 894-902.	7.9	173
60	Predictive Current Control of an Induction Machine Fed by a Matrix Converter With Reactive Power Control. IEEE Transactions on Industrial Electronics, 2008, 55, 4362-4371.	7.9	171
61	Advanced Control Strategies of Induction Machine: Field Oriented Control, Direct Torque Control and Model Predictive Control. Energies, 2018, 11, 120.	3.1	170
62	Model Predictive Current Control of Grid-Connected Neutral-Point-Clamped Converters to Meet Low-Voltage Ride-Through Requirements. IEEE Transactions on Industrial Electronics, 2015, 62, 1503-1514.	7.9	169
63	Predictive Control of an Indirect Matrix Converter. IEEE Transactions on Industrial Electronics, 2009, 56, 1847-1853.	7.9	166
64	Multiple-Vector Model Predictive Power Control for Grid-Tied Wind Turbine System With Enhanced Steady-State Control Performance. IEEE Transactions on Industrial Electronics, 2017, 64, 6287-6298.	7.9	166
65	Latest Advances of Model Predictive Control in Electrical Drives—Part I: Basic Concepts and Advanced Strategies. IEEE Transactions on Power Electronics, 2022, 37, 3927-3942.	7.9	166
66	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.	7.9	165
67	Model Predictive Approach for a Simple and Effective Load Voltage Control of Four-Leg Inverter With an Output $\frac{1}{s}$ Filter. IEEE Transactions on Industrial Electronics, 2014, 61, 5259-5270.	7.9	165
68	Robust Predictive Control of Three-Level NPC Back-to-Back Power Converter PMSG Wind Turbine Systems With Revised Predictions. IEEE Transactions on Power Electronics, 2018, 33, 9588-9598.	7.9	160
69	A vector control technique for medium-voltage multilevel inverters. IEEE Transactions on Industrial Electronics, 2002, 49, 882-888.	7.9	155
70	Design of Fast and Robust Current Regulators for High-Power Drives Based on Complex State Variables. IEEE Transactions on Industry Applications, 2004, 40, 1388-1397.	4.9	154
71	Voltage Source Multilevel Inverters With Reduced Device Count: Topological Review and Novel Comparative Factors. IEEE Transactions on Power Electronics, 2021, 36, 2720-2747.	7.9	154
72	Reduced Switching-Frequency-Modulation Algorithm for High-Power Multilevel Inverters. IEEE Transactions on Industrial Electronics, 2007, 54, 2894-2901.	7.9	151

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73	Simplified Finite Control Set-Model Predictive Control for Matrix Converter-Fed PMSM Drives. IEEE Transactions on Power Electronics, 2018, 33, 2438-2446.	7.9	149
74	Large Current Rectifiers: State of the Art and Future Trends. IEEE Transactions on Industrial Electronics, 2005, 52, 738-746.	7.9	148
75	Predictive Control Algorithm Technique for Multilevel Asymmetric Cascaded H-Bridge Inverters. IEEE Transactions on Industrial Electronics, 2008, 55, 4354-4361.	7.9	147
76	Multicarrier PWM With DC-Link Ripple Feedforward Compensation for Multilevel Inverters. IEEE Transactions on Power Electronics, 2008, 23, 52-59.	7.9	142
77	Digital Predictive Current Control of a Three-Phase Four-Leg Inverter. IEEE Transactions on Industrial Electronics, 2013, 60, 4903-4912.	7.9	141
78	Model Predictive Control with constant switching frequency using a Discrete Space Vector Modulation with virtual state vectors. , 2009, , .		137
79	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.	7.9	132
80	Predictive Strategy to Control Common-Mode Voltage in Loads Fed by Matrix Converters. IEEE Transactions on Industrial Electronics, 2008, 55, 4372-4380.	7.9	131
81	Predictive Current Control With Input Filter Resonance Mitigation for a Direct Matrix Converter. IEEE Transactions on Power Electronics, 2011, 26, 2794-2803.	7.9	130
82	Current Control for an Indirect Matrix Converter With Filter Resonance Mitigation. IEEE Transactions on Industrial Electronics, 2012, 59, 71-79.	7.9	129
83	A New Modulation Method to Reduce Common-Mode Voltages in Multilevel Inverters. IEEE Transactions on Industrial Electronics, 2004, 51, 834-839.	7.9	128
84	Torque Ripple Reduction of Predictive Torque Control for PMSM Drives With Parameter Mismatch. IEEE Transactions on Power Electronics, 2017, 32, 7160-7168.	7.9	125
85	Parallel Predictive Torque Control for Induction Machines Without Weighting Factors. IEEE Transactions on Power Electronics, 2020, 35, 1779-1788.	7.9	121
86	Model predictive control for electrical drive systems-an overview. CES Transactions on Electrical Machines and Systems, 2017, 1, 219-230.	3.5	120
87	Control of a cascaded H-bridge multilevel converter for grid connection of photovoltaic systems. , 2009, , .		116
88	Cascade-Free Predictive Speed Control for Electrical Drives. IEEE Transactions on Industrial Electronics, 2014, 61, 2176-2184.	7.9	114
89	Latest Advances of Model Predictive Control in Electrical Drives—Part II: Applications and Benchmarking With Classical Control Methods. IEEE Transactions on Power Electronics, 2022, 37, 5047-5061.	7.9	112
90	Multidimensional Modulation Technique for Cascaded Multilevel Converters. IEEE Transactions on Industrial Electronics, 2011, 58, 412-420.	7.9	110

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91	Model Predictive Current Control of Two-Level Four-Leg Inverters Part II: Experimental Implementation and Validation. IEEE Transactions on Power Electronics, 2013, 28, 3469-3478.	7.9	108
92	Level-shifted PWM for Cascaded Multilevel Inverters with Even Power Distribution. , 2007, , .		100
93	Design and Implementation of Disturbance Compensation-Based Enhanced Robust Finite Control Set Predictive Torque Control for Induction Motor Systems. IEEE Transactions on Industrial Informatics, 2017, 13, 2645-2656.	11.3	98
94	Model Predictive Control of a Multilevel CHB STATCOM in Wind Farm Application Using Diophantine Equations. IEEE Transactions on Industrial Electronics, 2019, 66, 1213-1223.	7.9	94
95	Power Distribution in Hybrid Multi-cell Converter with Nearest Level Modulation. , 2007, , .		92
96	Multiobjective Fuzzy-Decision-Making Predictive Torque Control for an Induction Motor Drive. IEEE Transactions on Power Electronics, 2017, 32, 6245-6260.	7.9	92
97	Switching Frequency Regulation for FCS-MPC Based on a Period Control Approach. IEEE Transactions on Industrial Electronics, 2018, 65, 5764-5773.	7.9	92
98	Current-Fed Multilevel Converters: An Overview of Circuit Topologies, Modulation Techniques, and Applications. IEEE Transactions on Power Electronics, 2017, 32, 3382-3401.	7.9	91
99	Predictive control of a three-phase UPS inverter using two steps prediction horizon. , 2010, , .		90
100	Finite Control Set Model Predictive Torque Control of Induction Machine With a Robust Adaptive Observer. IEEE Transactions on Industrial Electronics, 2017, 64, 2631-2641.	7.9	90
101	Predictive control of three-phase inverter. Electronics Letters, 2004, 40, 561.	1.0	89
102	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.	11.3	88
103	Model predictive control -- a simple and powerful method to control power converters. , 2009, , .		87
104	Generalized Sequential Model Predictive Control of IM Drives With Field-Weakening Ability. IEEE Transactions on Power Electronics, 2019, 34, 8944-8955.	7.9	86
105	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
106	FPGA-Based Experimental Investigation of a Quasi-Centralized Model Predictive Control for Back-to-Back Converters. IEEE Transactions on Power Electronics, 2016, 31, 662-674.	7.9	82
107	Predictive Control of an Induction Machine Fed by a Matrix Converter With Increased Efficiency and Reduced Common-Mode Voltage. IEEE Transactions on Energy Conversion, 2014, 29, 473-485.	5.2	81
108	Active Disturbance-Rejection-Based Speed Control in Model Predictive Control for Induction Machines. IEEE Transactions on Industrial Electronics, 2020, 67, 2574-2584.	7.9	81

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109	An Encoderless Predictive Torque Control for an Induction Machine With a Revised Prediction Model and EFOSMO. IEEE Transactions on Industrial Electronics, 2014, 61, 6635-6644.	7.9	79
110	Predictive Control of a Back-to-Back NPC Converter-Based Wind Power System. IEEE Transactions on Industrial Electronics, 2016, 63, 4615-4627.	7.9	79
111	A Computationally Efficient Lookup Table Based FCS-MPC for PMSM Drives Fed by Matrix Converters. IEEE Transactions on Industrial Electronics, 2017, 64, 7645-7654.	7.9	79
112	Reduced Multilevel Converter: A Novel Multilevel Converter With a Reduced Number of Active Switches. IEEE Transactions on Industrial Electronics, 2018, 65, 3636-3645.	7.9	79
113	Control of a Matrix Converter With Imposed Sinusoidal Source Currents. IEEE Transactions on Industrial Electronics, 2012, 59, 1939-1949.	7.9	78
114	Nonlinear Direct Control for Three-Level NPC Back-to-Back Converter PMSG Wind Turbine Systems: Experimental Assessment With FPGA. IEEE Transactions on Industrial Informatics, 2017, 13, 1172-1183.	11.3	78
115	High-voltage multilevel converter with regeneration capability. IEEE Transactions on Industrial Electronics, 2002, 49, 839-846.	7.9	77
116	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
117	Computationally Efficient Cascaded Optimal Switching Sequence MPC for Grid-Connected Three-Level NPC Converters. IEEE Transactions on Power Electronics, 2019, 34, 12464-12475.	7.9	76
118	MPPT Algorithm Based on Artificial Bee Colony for PV System. IEEE Access, 2021, 9, 43121-43133.	4.2	76
119	Technical Evaluation and Practical Experience of High-Power Grinding Mill Drives in Mining Applications. IEEE Transactions on Industry Applications, 2005, 41, 866-874.	4.9	75
120	Model Predictive Direct Speed Control With Torque Oscillation Reduction for PMSM Drives. IEEE Transactions on Industrial Informatics, 2019, 15, 4944-4956.	11.3	75
121	Encoderless Finite-State Predictive Torque Control for Induction Machine With a Compensated MRAS. IEEE Transactions on Industrial Informatics, 2014, 10, 1097-1106.	11.3	74
122	Decoupled Current Model and Control of Modular Multilevel Converters. IEEE Transactions on Industrial Electronics, 2015, 62, 5382-5392.	7.9	74
123	Modulated Model-Predictive Control With Optimized Overmodulation. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 404-413.	5.4	72
124	Model Predictive Control Using Artificial Neural Network for Power Converters. IEEE Transactions on Industrial Electronics, 2022, 69, 3689-3699.	7.9	71
125	Mitigation of Noneliminated Harmonics of SHEPWM Three-Level Multipulse Three-Phase Active Front End Converters With Low Switching Frequency for Meeting Standard IEEE-519-92. IEEE Transactions on Power Electronics, 2004, 19, 1594-1600.	7.9	70
126	Modular multilevel converter for large-scale multistring photovoltaic energy conversion system. , 2013, , .		70

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127	Multilevel Direct Power Control—A Generalized Approach for Grid-Tied Multilevel Converter Applications. IEEE Transactions on Power Electronics, 2014, 29, 5592-5604.	7.9	70
128	Improvement of Post-Fault Performance of a Cascaded H-bridge Multilevel Inverter. IEEE Transactions on Industrial Electronics, 2017, 64, 2779-2788.	7.9	69
129	Zynq Implemented Luenberger Disturbance Observer Based Predictive Control Scheme for PMSM Drives. IEEE Transactions on Power Electronics, 2020, 35, 1770-1778.	7.9	69
130	MPC-Controlled Virtual Synchronous Generator to Enhance Frequency and Voltage Dynamic Performance in Islanded Microgrids. IEEE Transactions on Smart Grid, 2021, 12, 953-964.	9.0	67
131	Simple Carrier-Based PWM Technique for a Three-to-Nine-Phase Direct AC—AC Converter. IEEE Transactions on Industrial Electronics, 2011, 58, 5014-5023.	7.9	65
132	Matrix converter controlled with the direct transfer function approach: analysis, modelling and simulation. International Journal of Electronics, 2005, 92, 63-85.	1.4	64
133	Predictive power control of an AC/DC/AC converter. , 0, , .		63
134	NPC multilevel multistring topology for large scale grid connected photovoltaic systems. , 2010, , .		63
135	Single DC-link cascaded H-bridge multilevel multistring photovoltaic energy conversion system with inherent balanced operation. , 2012, , .		63
136	A New Power Conversion System for Megawatt PMSG Wind Turbines Using Four-Level Converters and a Simple Control Scheme Based on Two-Step Model Predictive Strategy—Part I: Modeling and Theoretical Analysis. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2014, 2, 3-13.	5.4	63
137	Efficient Direct-Model Predictive Control With Discrete-Time Integral Action for PMSGs. IEEE Transactions on Energy Conversion, 2019, 34, 1063-1072.	5.2	63
138	Model-Free Predictive Current Control of a Voltage Source Inverter. IEEE Access, 2020, 8, 211104-211114.	4.2	63
139	Recent Advances in Mining Haul Trucks. IEEE Transactions on Industrial Electronics, 2004, 51, 321-329.	7.9	62
140	Direct Torque Control With Imposed Switching Frequency in an 11-Level Cascaded Inverter. IEEE Transactions on Industrial Electronics, 2004, 51, 827-833.	7.9	62
141	Modeling and analysis of common-mode voltages generated in medium voltage PWM-CSI drives. IEEE Transactions on Power Electronics, 2003, 18, 873-879.	7.9	61
142	Predictive control based selective harmonic elimination with low switching frequency for multilevel converters. , 2009, , .		61
143	Advanced and Intelligent Control in Power Electronics and Drives. Studies in Computational Intelligence, 2014, , .	0.9	61
144	Optimal Cost Function Parameter Design in Predictive Torque Control (PTC) Using Artificial Neural Networks (ANN). IEEE Transactions on Industrial Electronics, 2021, 68, 7309-7319.	7.9	61

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145	Predictive Torque Control of a Multidrive System Fed by a Dual Indirect Matrix Converter. IEEE Transactions on Industrial Electronics, 2015, 62, 2731-2741.	7.9	60
146	A Computationally Efficient Quasi-Centralized DMPC for Back-to-Back Converter PMSG Wind Turbine Systems Without DC-Link Tracking Errors. IEEE Transactions on Industrial Electronics, 2016, 63, 6160-6171.	7.9	60
147	An Experimental Evaluation of Predictive Current Control and Predictive Torque Control for a PMSM Fed by a Matrix Converter. IEEE Transactions on Industrial Electronics, 2017, 64, 8459-8471.	7.9	60
148	Novel 20-MW downhill conveyor system using three-level converters. IEEE Transactions on Industrial Electronics, 2002, 49, 1093-1100.	7.9	59
149	Model-Based Predictive Rotor Current Control for Grid Synchronization of a DFIG Driven by an Indirect Matrix Converter. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2014, 2, 715-726.	5.4	59
150	Full Predictive Cascaded Speed and Current Control of an Induction Machine. IEEE Transactions on Energy Conversion, 2016, 31, 1059-1067.	5.2	58
151	Predictive Current Control With Instantaneous Reactive Power Minimization for a Four-Leg Indirect Matrix Converter. IEEE Transactions on Industrial Electronics, 2017, 64, 922-929.	7.9	58
152	Predictive current control of a voltage source inverter. , 0, , .		57
153	Modulation Strategies for Fault-Tolerant Operation of H-Bridge Multilevel Inverters. , 2006, , .		57
154	Generalised approach for predictive control with common-mode voltage mitigation in multilevel diode-clamped converters. IET Power Electronics, 2015, 8, 1440-1450.	2.1	57
155	Regenerative drives in the megawatt range for high-performance downhill belt conveyors. IEEE Transactions on Industry Applications, 2002, 38, 203-210.	4.9	56
156	Control of Arm Capacitor Voltages in Modular Multilevel Converters. IEEE Transactions on Power Electronics, 2016, 31, 1774-1784.	7.9	56
157	Model Predictive Control of LC-Filtered Voltage Source Inverters With Optimal Switching Sequence. IEEE Transactions on Power Electronics, 2021, 36, 3422-3436.	7.9	56
158	Operating Experience of Shovel Drives for Mining Applications. IEEE Transactions on Industry Applications, 2004, 40, 664-671.	4.9	55
159	Review of predictive control methods to improve the input current of an indirect matrix converter. IET Power Electronics, 2014, 7, 886-894.	2.1	55
160	Unidimensional Modulation Technique for Cascaded Multilevel Converters. IEEE Transactions on Industrial Electronics, 2009, 56, 2981-2986.	7.9	54
161	Resonances and overvoltages in a medium-voltage fan motor drive with long cables in an underground mine. IEEE Transactions on Industry Applications, 2006, 42, 856-863.	4.9	53
162	Overview of model predictive control for induction motor drives. Chinese Journal of Electrical Engineering, 2016, 2, 62-76.	3.4	53

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163	Imposed Sinusoidal Source and Load Currents for an Indirect Matrix Converter. IEEE Transactions on Industrial Electronics, 2012, 59, 3427-3435.	7.9	51
164	Sensorless Predictive Control of AFE Rectifier With Robust Adaptive Inductance Estimation. IEEE Transactions on Industrial Informatics, 2019, 15, 3420-3431.	11.3	51
165	FPGA-Based Continuous Control Set Model Predictive Current Control for PMSM System Using Multistep Error Tracking Technique. IEEE Transactions on Power Electronics, 2020, 35, 13455-13464.	7.9	50
166	Mixed Multicell Cascaded Multilevel Inverter. , 2007, , .		49
167	A Predictive Control Scheme for Current-Source Rectifiers. IEEE Transactions on Industrial Electronics, 2009, 56, 1813-1815.	7.9	49
168	Event-Triggered Model Predictive Control for Power Converters. IEEE Transactions on Industrial Electronics, 2021, 68, 715-720.	7.9	49
169	High-Power Machine Drive, Using Nonredundant 27-Level Inverters and Active Front End Rectifiers. IEEE Transactions on Power Electronics, 2007, 22, 2527-2533.	7.9	48
170	Model-Free Predictive Control of Motor Drives and Power Converters: A Review. IEEE Access, 2021, 9, 105733-105747.	4.2	48
171	Multiple-Voltage-Vector Model Predictive Control With Reduced Complexity for Multilevel Inverters. IEEE Transactions on Transportation Electrification, 2020, 6, 105-117.	7.8	47
172	Generalized modeling and simulation of a modular multilevel converter. , 2011, , .		46
173	Online Weighting Factor Optimization by Simplified Simulated Annealing for Finite Set Predictive Control. IEEE Transactions on Industrial Informatics, 2021, 17, 31-40.	11.3	46
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