

Ralph M Kennel

List of Publications by Year in descending order

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372
papers

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375
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375
times ranked

4378
citing authors

#	ARTICLE	IF	CITATIONS
1	Predictive Control in Power Electronics and Drives. IEEE Transactions on Industrial Electronics, 2008, 55, 4312-4324.	7.9	1,441
2	High-Performance Control Strategies for Electrical Drives: An Experimental Assessment. IEEE Transactions on Industrial Electronics, 2012, 59, 812-820.	7.9	408
3	An Improved FCS-MPC Algorithm for an Induction Motor With an Imposed Optimized Weighting Factor. IEEE Transactions on Power Electronics, 2012, 27, 1540-1551.	7.9	358
4	Finite-Control-Set Model Predictive Torque Control With a Deadbeat Solution for PMSM Drives. IEEE Transactions on Industrial Electronics, 2015, 62, 5402-5410.	7.9	324
5	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
6	Deadbeat Model-Predictive Torque Control With Discrete Space-Vector Modulation for PMSM Drives. IEEE Transactions on Industrial Electronics, 2017, 64, 3537-3547.	7.9	240
7	Model Predictive Control of Power Electronic Systems: Methods, Results, and Challenges. IEEE Open Journal of Industry Applications, 2020, 1, 95-114.	6.5	231
8	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
9	Advanced Control Strategies of Induction Machine: Field Oriented Control, Direct Torque Control and Model Predictive Control. Energies, 2018, 11, 120.	3.1	170
10	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
11	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
12	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
13	Using Full Order and Reduced Order Observers for Robust Sensorless Predictive Torque Control of Induction Motors. IEEE Transactions on Power Electronics, 2012, 27, 3424-3433.	7.9	158
14	Computationally Efficient DMPC for Three-Level NPC Back-to-Back Converters in Wind Turbine Systems With PMSG. IEEE Transactions on Power Electronics, 2017, 32, 8018-8034.	7.9	121
15	Parallel Predictive Torque Control for Induction Machines Without Weighting Factors. IEEE Transactions on Power Electronics, 2020, 35, 1779-1788.	7.9	121
16	Model predictive control for electrical drive systems-an overview. CES Transactions on Electrical Machines and Systems, 2017, 1, 219-230.	3.5	120
17	FPGA Implementation of Model Predictive Control With Constant Switching Frequency for PMSM Drives. IEEE Transactions on Industrial Informatics, 2014, 10, 2055-2063.	11.3	117
18	Cascade-Free Predictive Speed Control for Electrical Drives. IEEE Transactions on Industrial Electronics, 2014, 61, 2176-2184.	7.9	114

#	ARTICLE	IF	CITATIONS
19	Latest Advances of Model Predictive Control in Electrical Drivesâ€™ Part II: Applications and Benchmarking With Classical Control Methods. IEEE Transactions on Power Electronics, 2022, 37, 5047-5061.	7.9	112
20	Variable Switching Point Predictive Torque Control of Induction Machines. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2014, 2, 285-295.	5.4	107
21	A Fixed Switching Frequency Scheme for Finite-Control-Set Model Predictive Controlâ€™ Concept and Algorithm. IEEE Transactions on Industrial Electronics, 2016, 63, 7662-7670.	7.9	97
22	General Formulation of Kalman-Filter-Based Online Parameter Identification Methods for VSI-Fed PMSM. IEEE Transactions on Industrial Electronics, 2021, 68, 2856-2864.	7.9	97
23	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
24	Robust Predictive Control for Direct-Driven Surface-Mounted Permanent-Magnet Synchronous Generators Without Mechanical Sensors. IEEE Transactions on Energy Conversion, 2018, 33, 179-189.	5.2	87
25	MPC Implementation of a Quasi-Time-Optimal Speed Control for a PMSM Drive, With Inner Modulated-FS-MPC Torque Control. IEEE Transactions on Industrial Electronics, 2016, 63, 3897-3905.	7.9	85
26	Loss Minimization of Induction Machines in Dynamic Operation. IEEE Transactions on Energy Conversion, 2013, 28, 726-735.	5.2	84
27	Predictive Control With Novel Virtual-Flux Estimation for Back-to-Back Power Converters. IEEE Transactions on Industrial Electronics, 2015, 62, 2823-2834.	7.9	83
28	Dynamic Loss Minimization of Finite Control Set-Model Predictive Torque Control for Electric Drive System. IEEE Transactions on Power Electronics, 2016, 31, 849-860.	7.9	82
29	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
30	Direct Model Predictive Current Control Strategy of Quasi-Z-Source Inverters. IEEE Transactions on Power Electronics, 2017, 32, 5786-5801.	7.9	82
31	Finite Position Set-Phase Locked Loop for Sensorless Control of Direct-Driven Permanent-Magnet Synchronous Generators. IEEE Transactions on Power Electronics, 2018, 33, 3097-3105.	7.9	82
32	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
33	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
34	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
35	A Multifrequency Superposition Methodology to Achieve High Efficiency and Targeted Power Distribution for a Multiload MCR WPT System. IEEE Transactions on Power Electronics, 2018, 33, 9005-9016.	7.9	77
36	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

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37	Sensorless Control for SPMSM With Concentrated Windings Using Multisignal Injection Method. IEEE Transactions on Industrial Electronics, 2014, 61, 6624-6634.	7.9	71
38	On the Choice of Norm in Finite Control Set Model Predictive Control. IEEE Transactions on Power Electronics, 2018, 33, 7105-7117.	7.9	71
39	Sensorless Control of Synchronous Machines Based on Direct Speed and Position Estimation in Polar Stator-Current Coordinates. IEEE Transactions on Power Electronics, 2013, 28, 2503-2513.	7.9	65
40	Deadbeat Control for Electrical Drives: A Robust and Performant Design Based on Differential Flatness. IEEE Transactions on Power Electronics, 2015, 30, 4585-4596.	7.9	65
41	Efficient Direct-Model Predictive Control With Discrete-Time Integral Action for PMSGs. IEEE Transactions on Energy Conversion, 2019, 34, 1063-1072.	5.2	63
42	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
43	FPGA Implementation of a Hybrid Sensorless Control of SMPMSM in the Whole Speed Range. IEEE Transactions on Industrial Informatics, 2013, 9, 1253-1261.	11.3	59
44	Sensorless field- oriented control for permanent magnet synchronous machines with an arbitrary injection scheme and direct angle calculation. , 2011, , .		58
45	On the benefit of long-horizon direct model predictive control for drives with LC filters. , 2014, , .		58
46	A Computationally Efficient Model Predictive Control Strategy for Linear Systems With Integer Inputs. IEEE Transactions on Control Systems Technology, 2016, 24, 1463-1471.	5.2	56
47	A Novel Nonlinear Modeling Method for Permanent-Magnet Synchronous Motors. IEEE Transactions on Industrial Electronics, 2016, 63, 6490-6498.	7.9	55
48	Simplified model predictive current control without mechanical sensors for variable-speed wind energy conversion systems. Electrical Engineering, 2017, 99, 367-377.	2.0	52
49	Robust Deadbeat Control of an Induction Motor by Stable MRAS Speed and Stator Estimation. IEEE Transactions on Industrial Informatics, 2018, 14, 200-209.	11.3	52
50	Position sensorless control of PMSM by synchronous injection and demodulation of alternating carrier voltage. , 2010, , .		49
51	Saliency-based sensorless predictive torque control with reduced torque ripple. IEEE Transactions on Power Electronics, 2012, 27, 4311-4320.	7.9	49
52	Solid State Transformers: Concepts, Classification, and Control. Energies, 2020, 13, 2319.	3.1	45
53	Drive Cycle Analysis of a Permanent-Magnet Traction Motor Based on Magnetostatic Finite-Element Analysis. IEEE Transactions on Vehicular Technology, 2015, 64, 1249-1254.	6.3	44
54	Fast Speed Control of AC Machines Without the Proportional-Integral Controller: Using an Extended High-Gain State Observer. IEEE Transactions on Power Electronics, 2019, 34, 9006-9015.	7.9	42

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55	A Fast and Precise Grid Synchronization Method Based on Fixed-Gain Filter. IEEE Transactions on Industrial Electronics, 2018, 65, 7119-7128.	7.9	39
56	A Variable Switching Point Predictive Current Control Strategy for Quasi-Z-Source Inverters. IEEE Transactions on Industry Applications, 2018, 54, 1469-1480.	4.9	39
57	Ripple-reduced model predictive direct power control for active front-end power converters with extended switching vectors and time-optimised control. IET Power Electronics, 2016, 9, 1914-1923.	2.1	38
58	Eliminating cross interference between multiple receivers to achieve targeted power distribution for a multi-frequency multi-load MCR WPT system. IET Power Electronics, 2018, 11, 1321-1328.	2.1	35
59	Model predictive direct current control. , 2010, , .		34
60	A Generalized Observer-Based Robust Predictive Current Control Strategy for PMSM Drive System. IEEE Transactions on Industrial Electronics, 2022, 69, 1322-1332.	7.9	34
61	Fault-Ride through Strategy for Permanent-Magnet Synchronous Generators in Variable-Speed Wind Turbines. Energies, 2016, 9, 1066.	3.1	33
62	Direct Predictive Speed Control With a Sliding Manifold Term for PMSM Drives. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 1258-1267.	5.4	33
63	Extending the Power Capability With Dynamic Performance of a Power-Hardware-in-the-Loop Application—Power Grid Emulator Using Inverter Cumulation. IEEE Transactions on Industry Applications, 2016, 52, 3193-3202.	4.9	32
64	A New Space-Vector-Modulation Algorithm for a Three-Level Four-Leg NPC Inverter. IEEE Transactions on Energy Conversion, 2017, 32, 23-35.	5.2	32
65	Reformulation of the long-horizon direct model predictive control problem to reduce the computational effort. , 2014, , .		30
66	Suboptimal search strategies with bounded computational complexity to solve long-horizon direct model predictive control problems. , 2015, , .		30
67	Secondary Saliency Tracking-Based Sensorless Control for Concentrated Winding SPMSM. IEEE Transactions on Industrial Informatics, 2016, 12, 201-210.	11.3	29
68	Predictive Cascaded Speed and Current Control for PMSM Drives With Multi-Timescale Optimization. IEEE Transactions on Power Electronics, 2019, 34, 11046-11061.	7.9	29
69	Multiple-Frequency Resonating Compensation for Multichannel Transmission of Wireless Power Transfer. IEEE Transactions on Power Electronics, 2021, 36, 5169-5180.	7.9	29
70	Replacement of electrical (load) drives by a hardware-in-the-loop system. , 2011, , .		28
71	Encoderless model predictive control of back-to-back converter direct-drive permanent-magnet synchronous generator wind turbine systems. , 2013, , .		28
72	Direct Model Predictive Control of three-level NPC back-to-back power converter PMSG wind turbine systems under unbalanced grid. , 2015, , .		28

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73	A comparison of quasi-Z-source inverters and conventional two-stage inverters for PV applications. EPE Journal (European Power Electronics and Drives Journal), 2017, 27, 43-59.	0.7	28
74	Predictive torque control of induction machines fed by 3L-NPC converters with online weighting factor adjustment using Fuzzy Logic. , 2017, , .		28
75	Computationally Efficient Finite-Position-Set-Phase-Locked Loop for Sensorless Control of PMSGs in Wind Turbine Applications. IEEE Transactions on Power Electronics, 2021, 36, 3007-3016.	7.9	28
76	Space-Vector-Optimized Predictive Control for Dual Three-Phase PMSM With Quick Current Response. IEEE Transactions on Power Electronics, 2022, 37, 4453-4462.	7.9	28
77	Efficient Direct Model Predictive Control for Doubly-Fed Induction Generators. Electric Power Components and Systems, 2017, 45, 574-587.	1.8	27
78	Finite set model predictive control with on-line parameter estimation for active frond-end converters. Electrical Engineering, 2018, 100, 1497-1507.	2.0	27
79	Overmodulation Methods for Modulated Model Predictive Control and Space Vector Modulation. IEEE Transactions on Power Electronics, 2021, 36, 4549-4559.	7.9	27
80	Arbitrary injection for permanent magnet synchronous machines with multiple saliencies. , 2013, , .		26
81	Position Self-Sensing Evaluation of Novel CW-IPMSMs With an HF Injection Method. IEEE Transactions on Industry Applications, 2014, 50, 3325-3334.	4.9	26
82	Optimal Control Solutions for PMSM Drives: A Comparison Study With Experimental Assessments. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2018, 6, 352-362.	5.4	26
83	Highly Efficient and Robust Grid Connected Photovoltaic System Based Model Predictive Control with Kalman Filtering Capability. Sustainability, 2020, 12, 4542.	3.2	26
84	Simplified Sensorless Current Predictive Control of Synchronous Reluctance Motor Using Online Parameter Estimation. Energies, 2020, 13, 492.	3.1	26
85	Deep Learning-Based Long-Horizon MPC: Robust, High Performing, and Computationally Efficient Control for PMSM Drives. IEEE Transactions on Power Electronics, 2022, 37, 12486-12501.	7.9	26
86	Model predictive torque control with an extended prediction horizon for electrical drive systems. International Journal of Control, 2015, 88, 1379-1388.	1.9	25
87	Continuous Space Vector Modulation for Symmetrical Six-Phase Drives. IEEE Transactions on Power Electronics, 2016, 31, 3837-3848.	7.9	25
88	FPGA based finite-set model predictive current control for small PMSM drives with efficient resource streaming. , 2017, , .		24
89	Predictive Current Trajectory Control for PMSM at Voltage Limit. IEEE Access, 2020, 8, 1670-1679.	4.2	24
90	Speed and current Model Predictive Control of an IPM synchronous motor drive. , 2011, , .		23

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91	Implementation and experimental investigation of a sensorless field-oriented control scheme for permanent-magnet synchronous generators. <i>Electrical Engineering</i> , 2018, 100, 849-856.	2.0	22
92	UltraZohm - a Powerful Real-Time Computation Platform for MPC and Multi-Level Inverters. , 2019, , .		22
93	Deadbeat Predictive Current Control for SPMSM at Low Switching Frequency With Moving Horizon Estimator. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021, 9, 345-353.	5.4	22
94	Measuring Magnetic Characteristics of Synchronous Machines by Applying Position Estimation Techniques. <i>IEEE Transactions on Industry Applications</i> , 2014, 50, 3816-3824.	4.9	21
95	Finite-control-set model predictive current control for PMSM using grey prediction. , 2016, , .		21
96	Dynamic-Balancing Robust Current Control for Wireless Drone-in-Flight Charging. <i>IEEE Transactions on Power Electronics</i> , 2022, 37, 3626-3635.	7.9	21
97	Multi-Objective Optimization-Based Health-Conscious Predictive Energy Management Strategy for Fuel Cell Hybrid Electric Vehicles. <i>Energies</i> , 2022, 15, 1318.	3.1	21
98	A Novel Universal Control Scheme for Transcutaneous Energy Transfer (TET) Applications. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2015, 3, 296-305.	5.4	20
99	Dynamic Testing Characterization of a Synchronous Reluctance Machine. <i>IEEE Transactions on Industry Applications</i> , 2018, 54, 1370-1378.	4.9	20
100	An Adaptive Model-Based MPPT Technique with Drift-Avoidance for Grid-Connected PV Systems. <i>Energies</i> , 2020, 13, 6656.	3.1	20
101	On Continuous-Set Model Predictive Control of Permanent Magnet Synchronous Machines. <i>IEEE Transactions on Power Electronics</i> , 2022, 37, 10360-10371.	7.9	20
102	Predictive Control of Series Stacked Flying-Capacitor Active Rectifiers. <i>IEEE Transactions on Industrial Informatics</i> , 2013, 9, 697-707.	11.3	19
103	Predictive field-oriented control for electric drives. <i>Chinese Journal of Electrical Engineering</i> , 2017, 3, 73-78.	3.4	19
104	A Dual Reference Frame Multistep Direct Model Predictive Current Control With a Disturbance Observer for SPMSM Drives. <i>IEEE Transactions on Power Electronics</i> , 2022, 37, 2857-2869.	7.9	18
105	Using a weighting factor table for FCS-MPC of induction motors with extended prediction horizon. , 2012, , .		17
106	Saliency based sensorless field- oriented control for permanent magnet synchronous machines in the whole speed range. , 2012, , .		17
107	A hybrid MPPT for quasi-Z-source inverters in PV applications under partial shading condition. , 2017, , .		17
108	Computationally Efficient Fixed Switching Frequency Direct Model Predictive Control. <i>IEEE Transactions on Power Electronics</i> , 2022, 37, 2761-2777.	7.9	17

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109	On Considering Saturation and Cross-Coupling Effects for Copper Loss Minimization on Highly Anisotropic Synchronous Machines. IEEE Transactions on Industry Applications, 2018, 54, 4177-4185.	4.9	16
110	Comparison of state-of-the-art estimators for electrical parameter identification of PMSM. , 2019, , .		16
111	Encoderless Parallel Predictive Torque Control for Induction Machine Using a Robust Model Reference Adaptive System. IEEE Transactions on Energy Conversion, 2022, 37, 232-242.	5.2	16
112	Long-Horizon Direct Model Predictive Control Based on Neural Networks for Electrical Drives. , 2020, , .		16
113	Model-Control PROMC--A New Control Strategy with Microcomputer for Drive Applications. IEEE Transactions on Industry Applications, 1985, IA-21, 1162-1167.	4.9	15
114	Robust encoderless speed control of a synchronous machine by direct evaluation of the back-EMF angle without observer. , 2010, , .		15
115	Compensating angle estimation errors caused by magnetic saturation in anisotropy-based sensorless control schemes. , 2012, , .		15
116	Increasing the performance of Finite-Set Model Predictive Control by oversampling. , 2013, , .		15
117	General arbitrary injection approach for synchronous machines. , 2013, , .		15
118	Predictive torque control for AC drives: Improvement of parametric robustness using two-degree-of-freedom control. , 2013, , .		15
119	Novel ripple reduced Direct Model Predictive Control of three-level NPC active front end with reduced computational effort. , 2015, , .		15
120	Proportional-resonant controller design for quasi-Z-source inverters with LC filters. , 2016, , .		15
121	Long-horizon direct model predictive control with active balancing of the neutral point potential. , 2017, , .		15
122	High-resolution sensorless position estimation using delta-sigma-modulated current measurement. , 2011, , .		14
123	Bivariate polynomial approximation of cross-saturated flux curves in synchronous machine models. , 2012, , .		14
124	Efficient finite control set-model predictive control for grid-connected photovoltaic inverters. , 2016, , .		14
125	Back-EMF-based sensorless control system of hybrid SRM for high-speed operation. IET Electric Power Applications, 2018, 12, 867-873.	1.8	14
126	Advanced Strategy of Speed Predictive Control for Nonlinear Synchronous Reluctance Motors. Machines, 2020, 8, 44.	2.2	14

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127	Model-Predictive Control for Modular Multilevel Converters Operating at Wide Frequency Range With a Novel Cost Function. IEEE Transactions on Industrial Electronics, 2022, 69, 5569-5580.	7.9	14
128	Multiple-Vector Model Predictive Control with Fuzzy Logic for PMSM Electric Drive Systems. Energies, 2021, 14, 1727.	3.1	14
129	Robust Predictive Control Scheme for Permanent-Magnet Synchronous Generators Based Modern Wind Turbines. Electronics (Switzerland), 2021, 10, 1596.	3.1	14
130	A Full State-Variable Direct Predictive Control for Islanded Microgrids With Parallel Converters. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 4615-4628.	5.4	14
131	Sliding-Mode-Based Current and Speed Sensors Fault Diagnosis for Five-Phase PMSM. Energies, 2022, 15, 71.	3.1	14
132	Reduced Multisource Switched-Capacitor Multilevel Inverter Topologies. IEEE Transactions on Power Electronics, 2022, 37, 14647-14666.	7.9	14
133	Reduced-Complexity Model Predictive Control with Online Parameter Assessment for a Grid-Connected Single-Phase Multilevel Inverter. Sustainability, 2020, 12, 7997.	3.2	13
134	Improved Direct Model Predictive Control for Grid-Connected Power Converters. Energies, 2020, 13, 2597.	3.1	13
135	Self-Balancing Virtual Impedance for Multiple-Pickup Wireless Power Transfer. IEEE Transactions on Power Electronics, 2021, 36, 958-967.	7.9	13
136	Continuous Control Set Predictive Speed Control of SPMSM Drives With Short Prediction Horizon. IEEE Transactions on Power Electronics, 2022, 37, 10166-10177.	7.9	13
137	Classical Model Predictive Control of a Permanent Magnet Synchronous Motor. EPE Journal (European Power Electronics and Drives Journal), 2012, 22, 24-31.	0.7	12
138	A finite-set model predictive position controller for the permanent magnet synchronous motor. , 2013, , .		12
139	Real-time dynamic efficiency optimization for induction machines. , 2013, , .		12
140	Eigenmode Analysis of a Multiresonant Wireless Energy Transfer System. IEEE Transactions on Industrial Electronics, 2014, 61, 4134-4141.	7.9	12
141	Computationally efficient sphere decoding for long-horizon direct model predictive control. , 2016, , .		12
142	Smoothed Quasi-Time-Optimal Control for the Torsional Torque in a Two-Mass System. IEEE Transactions on Industrial Electronics, 2016, 63, 3954-3963.	7.9	12
143	Efficient model predictive power control with online inductance estimation for photovoltaic inverters. Electrical Engineering, 2020, 102, 549-562.	2.0	12
144	Limited-Position Set Model-Reference Adaptive Observer for Control of DFIGs without Mechanical Sensors. Machines, 2020, 8, 72.	2.2	12

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145	On Offset-Free Continuous Model Predictive Current Control of Permanent Magnet Synchronous Motors. IFAC-PapersOnLine, 2020, 53, 6662-6669.	0.9	12
146	Real-Time Implementation of Long-Horizon Direct Model Predictive Control on an Embedded System. IEEE Open Journal of Industry Applications, 2022, 3, 1-12.	6.5	12
147	A Nine-Level Split-Capacitor Active-Neutral-Point-Clamped Inverter and Its Optimal Modulation Technique. IEEE Transactions on Power Electronics, 2022, 37, 8045-8064.	7.9	12
148	Analytical Prototype Functions for Flux Linkage Approximation in Synchronous Machines. IEEE Open Journal of the Industrial Electronics Society, 2022, 3, 265-282.	6.8	12
149	Model-Based Maximum Power Point Tracking Algorithm With Constant Power Generation Capability and Fast DC-Link Dynamics for Two-Stage PV Systems. IEEE Access, 2022, 10, 48551-48568.	4.2	12
150	Robust sliding mode voltage model observer for sensorless PTC of induction motors. , 2012, , .		11
151	Heuristic variable switching point predictive current control for the three-level neutral point clamped inverter. , 2013, , .		11
152	FPGA HiL simulation of back-to-back converter PMSG wind turbine systems. , 2015, , .		11
153	Variable switching point predictive torque control with extended prediction horizon. , 2015, , .		11
154	Computationally efficient predictive control of three-level NPC converters with DC-link voltage balancing: A priori state selection approach. , 2017, , .		11
155	Single-Stage Control System of I-MMC-Based Island MVDC Link Receiver With Multiple Modulation Freedoms. IEEE Access, 2020, 8, 10088-10097.	4.2	11
156	A Drive Topology for High-Speed SRM With Bidirectional Energy Flow and Fast Demagnetization Voltage. IEEE Transactions on Industrial Electronics, 2021, 68, 9242-9253.	7.9	11
157	Synergy of Electrostatic and Chemical Doping to Improve the Performance of Junctionless Carbon Nanotube Tunneling Field-Effect Transistors: Ultrascaling, Energy-Efficiency, and High Switching Performance. Nanomaterials, 2022, 12, 462.	4.1	11
158	Adaptive Model Predictive Current Control for PMLSM Drive System. IEEE Transactions on Industrial Electronics, 2023, 70, 3493-3502.	7.9	11
159	Levenberg-marquardt-based OBS algorithm using adaptive pruning interval for system identification with dynamic neural networks. , 2009, , .		10
160	Predictive torque control of an induction machine fed by a flying capacitor converter. , 2011, , .		10
161	Predictive torque control of an induction machine fed by a neutral point clamped inverter. , 2011, , .		10
162	Constrained long-horizon direct model predictive control for power electronics. , 2016, , .		10

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163	Operating point dependent anisotropies and assessment for position-sensorless control. , 2016, , .		10
164	Long-horizon predictive current control of modular-multilevel converter HVDC systems. , 2017, , .		10
165	Demodulation Approach for Slowly Sampled Sensorless Field-Oriented Control Systems Enabling Multiple-Frequency Injections. IEEE Transactions on Industry Applications, 2018, 54, 732-744.	4.9	10
166	Stability Prediction and Damping Enhancement for MVdc Railway Electrification System. IEEE Transactions on Industry Applications, 2019, 55, 7683-7698.	4.9	10
167	Model Reference Adaptive System with Finite-Set for Encoderless Control of PMSGs in Micro-Grid Systems. Energies, 2020, 13, 4844.	3.1	10
168	A Phase-Shift-Modulated LLC-Resonant Micro-Inverter Based on Fixed Frequency Predictive-MPPT. Energies, 2020, 13, 1460.	3.1	10
169	Role of Junctionless Mode in Improving the Photosensitivity of Sub-10 nm Carbon Nanotube/Nanoribbon Field-Effect Phototransistors: Quantum Simulation, Performance Assessment, and Comparison. Nanomaterials, 2022, 12, 1639.	4.1	10
170	Model predictive controller for grid-connected photovoltaic based on quasi-Z-source inverter. , 2013, , .		9
171	Current control and capacitor balancing for 4-leg NPC converters using finite set model predictive control. , 2013, , .		9
172	Effective variable switching point predictive current control for ac low-voltage drives. International Journal of Control, 2015, 88, 1366-1378.	1.9	9
173	Fully FPGA based direct model predictive power control for grid-tied AFEs with improved performance. , 2015, , .		9
174	Model Predictive Control of Modular Multilevel Converters with Independent Arm-Balancing Control. , 2019, , .		9
175	Voltage-Sourced Converter Fed High-Speed Switched Reluctance Motor Drive System With Energy Feedback and Near-Unity Power Factor. IEEE Transactions on Industrial Electronics, 2022, 69, 3460-3470.	7.9	9
176	Flux Linkage-Based Direct Model Predictive Current Control for Synchronous Machines. IEEE Transactions on Power Electronics, 2021, 36, 14237-14256.	7.9	9
177	Trajectory tracking control with flat inputs and a dynamic compensator. , 2009, , .		9
178	UltraZohmâ€”An Open-Source Rapid Control Prototyping Platform for Power Electronic Systems. , 2021, , .		9
179	Sliding Mode Flux Observer Based Predictive Field Oriented Control for Induction Machine Drives. , 2020, , .		9
180	Asymmetrical elevenâ€”level inverter topology with reduced power semiconductor switches, total standing voltage and cost factor. IET Power Electronics, 2022, 15, 395-411.	2.1	9

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