

# Ralph M Kennel

## List of Publications by Year in descending order

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372  
papers

10,378  
citations

44069

48  
h-index

43889

91  
g-index

375  
all docs

375  
docs citations

375  
times ranked

4378  
citing authors

#	ARTICLE	IF	CITATIONS
1	Computationally Efficient Predictive Current Control With Finite Set Extension Using Derivative Projection for IM Drives. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2023, 11, 1345-1357.	5.4	3
2	Modulated Model Predictive Control of Modular Multilevel Converters Operating in a Wide Frequency Range. IEEE Transactions on Industrial Electronics, 2023, 70, 4380-4391.	7.9	4
3	Adaptive Model Predictive Current Control for PMLSM Drive System. IEEE Transactions on Industrial Electronics, 2023, 70, 3493-3502.	7.9	11
4	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
5	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
6	Computationally Efficient Fixed Switching Frequency Direct Model Predictive Control. IEEE Transactions on Power Electronics, 2022, 37, 2761-2777.	7.9	17
7	Iterative Gradient Descent-Based Finite Control Set Predictive Current Control With Least-Squares Optimized Duty Cycles. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 1422-1433.	5.4	3
8	A Low-Complexity Gradient Descent Solution With Backtracking Iteration Approach for Finite Control Set Predictive Current Control. IEEE Transactions on Industrial Electronics, 2022, 69, 4522-4533.	7.9	6
9	Dual-Mode Power Operation for Grid-Connected PV Systems with Adaptive DC-link Controller. Arabian Journal for Science and Engineering, 2022, 47, 2893-2907.	3.0	4
10	Dynamic-Balancing Robust Current Control for Wireless Drone-in-Flight Charging. IEEE Transactions on Power Electronics, 2022, 37, 3626-3635.	7.9	21
11	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
12	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
13	A Dual Reference Frame Multistep Direct Model Predictive Current Control With a Disturbance Observer for SPMSM Drives. IEEE Transactions on Power Electronics, 2022, 37, 2857-2869.	7.9	18
14	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
15	Gradient Descent-Based Objective Function Reformulation for Finite Control Set Model Predictive Current Control With Extended Horizon. IEEE Transactions on Industrial Electronics, 2022, 69, 8667-8678.	7.9	3
16	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
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	Energy Efficiency of Multi-Technology PV Modules under Real Outdoor Conditions—An Experimental Assessment in Ghardaïa, Algeria. Sustainability, 2022, 14, 1771.	3.2	4
23	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
24	Convergence Investigation of Injection-Based Encoderless Control Algorithms for RSMs in Deep Magnetic Saturation. IEEE Access, 2022, 10, 30091-30108.	4.2	1
25	On Continuous-Set Model Predictive Control of Permanent Magnet Synchronous Machines. IEEE Transactions on Power Electronics, 2022, 37, 10360-10371.	7.9	20
26	Enhanced State and Parameter Estimation within Reconfigurable Battery Systems for Electric Vehicles. , 2022, , .		1
27	Multi-Objective Optimization-Based Health-Conscious Predictive Energy Management Strategy for Fuel Cell Hybrid Electric Vehicles. Energies, 2022, 15, 1318.	3.1	21
28	Multistep Model Predictive Control for Electrical Drives—A Fast Quadratic Programming Solution. Symmetry, 2022, 14, 626.	2.2	2
29	Sliding-Mode-Based Current and Speed Sensors Fault Diagnosis for Five-Phase PMSM. Energies, 2022, 15, 71.	3.1	14
30	Asymmetrical eleven-level inverter topology with reduced power semiconductor switches, total standing voltage and cost factor. IET Power Electronics, 2022, 15, 395-411.	2.1	9
31	Maximum Power Point Tracking-Based Model Predictive Control for Photovoltaic Systems: Investigation and New Perspective. Sensors, 2022, 22, 3069.	3.8	6
32	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
33	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
34	Three-Phase Model-Based Predictive Control Methods With Reduced Calculation Burden for Modular Multilevel Converters. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 7037-7048.	5.4	4
35	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
36	Learning-based model predictive current control for synchronous machines: An LSTM approach. European Journal of Control, 2022, 68, 100663.	2.6	6

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37	Reduced Multisource Switched-Capacitor Multilevel Inverter Topologies. IEEE Transactions on Power Electronics, 2022, 37, 14647-14666.	7.9	14
38	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
39	Self-Balancing Virtual Impedance for Multiple-Pickup Wireless Power Transfer. IEEE Transactions on Power Electronics, 2021, 36, 958-967.	7.9	13
40	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
41	Multiple-Frequency Resonating Compensation for Multichannel Transmission of Wireless Power Transfer. IEEE Transactions on Power Electronics, 2021, 36, 5169-5180.	7.9	29
42	Overmodulation Methods for Modulated Model Predictive Control and Space Vector Modulation. IEEE Transactions on Power Electronics, 2021, 36, 4549-4559.	7.9	27
43	Deadbeat Predictive Current Control for SPMSM at Low Switching Frequency With Moving Horizon Estimator. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 345-353.	5.4	22
44	DC-link sensorless control strategy for grid-connected PV systems. Electrical Engineering, 2021, 103, 2345-2355.	2.0	6
45	Multiple-Vector Model Predictive Control with Fuzzy Logic for PMSM Electric Drive Systems. Energies, 2021, 14, 1727.	3.1	14
46	Anisotropy-based Sensorless Control for Electrical Drives – Part I: Basic Principle. , 2021, , .		0
47	Extended Kalman Filter based Encoderless Predictive Current Control for Induction Machine Drives. , 2021, , .		0
48	FPGA-Implementation Friendly Long-Horizon Finite Control Set Model Predictive Control for High-Power Electronic Systems. , 2021, , .		5
49	Sliding-Mode Disturbance Observer based Parallel Predictive Torque Controller for Induction Machine Drives. , 2021, , .		0
50	Online Detection of Soft Internal Short Circuits in Lithium-Ion Battery Packs by Data-Driven Cell Voltage Monitoring. , 2021, , .		3
51	Improved Impedance Measurements for Electric Vehicles with Reconfigurable Battery Systems. , 2021, , .		5
52	Adaptive Predictive Control with Neuro-Fuzzy Parameter Estimation for Microgrid Grid-Forming Converters. Sustainability, 2021, 13, 7038.	3.2	7
53	Enhancing the Cell Impedance Estimation of a Lithium-Ion Battery System with Embedded Power Path Switches. , 2021, , .		7
54	Frequency Measurement Method of Signals with Low Signal-to-Noise-Ratio Using Cross-Correlation. Machines, 2021, 9, 123.	2.2	4

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55	Robust Predictive Control Scheme for Permanent-Magnet Synchronous Generators Based Modern Wind Turbines. Electronics (Switzerland), 2021, 10, 1596.	3.1	14
56	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
57	Low Sensitivity Predictive Control for Doubly-Fed Induction Generators Based Wind Turbine Applications. Sustainability, 2021, 13, 9150.	3.2	4
58	Improved DTC-SVM Based on Input-Output Feedback Linearization Technique Applied on DOEWM Powered by Two Dual Indirect Matrix Converters. Energies, 2021, 14, 5625.	3.1	2
59	A Centralized Control Strategy for Grid-Connected High-Speed Switched Reluctance Motor Drive System With Power Factor Correction. IEEE Transactions on Energy Conversion, 2021, 36, 2163-2172.	5.2	7
60	Modeling Lithium-Ion Batteries Using Machine Learning Algorithms for Mild-Hybrid Vehicle Applications. , 2021, , .		1
61	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
62	Flux Linkage-Based Direct Model Predictive Current Control for Synchronous Machines. IEEE Transactions on Power Electronics, 2021, 36, 14237-14256.	7.9	9
63	Influence of Frequency Dependent Motor Resistance and Inductance on the Current Control Loop Design of Servo Drives. , 2021, , .		1
64	UltraZohmâ€”An Open-Source Rapid Control Prototyping Platform for Power Electronic Systems. , 2021, , .		9
65	A Comparison of Three State-Space Models of an Induction Machine Derived from the Same Set of Conductor Distribution Harmonics. , 2021, , .		0
66	Comparative Study of Experimentally Measured and Calculated Solar Radiations for Two Sites in Algeria. Energies, 2021, 14, 7441.	3.1	0
67	A decoupled Nearest Level Control for a Modular Multilevel Cascade Converter based on Triple Star Bridge Cells (MMCC-TSBC). , 2021, , .		0
68	Finite Control Set Model-Based Predictive Current Control with Variable Sampling Interval for Induction Machine. , 2021, , .		0
69	Model Predictive Current Control of PMSM drives for Achieving both Fast Transient Response and Ripple Suppression. , 2021, , .		2
70	Robust Multiple-Vector Predictive Control for Power Converters with Grid-Voltage Estimation. , 2021, , .		0
71	A Direct Model Predictive Control Strategy with Optimized Sampling Interval. , 2021, , .		0
72	Variable Switching Point Predictive Current Control for Multi-Phase Permanent Magnet Synchronous Drives. , 2021, , .		4

#	ARTICLE	IF	CITATIONS
73	Application of Hybrid Model Predictive Control for Servo Press. , 2021, , .		2
74	Modelling for Nonlinear Predictive Control of Synchronous Machines: First Principles Vs. Data-Driven Approaches. , 2021, , .		2
75	Model Variation Observer Based Model Predictive Control for PMSM Drives. , 2021, , .		1
76	A Disturbance Observer-Based Integral Sliding Mode Control for Two-Level Power Converter. , 2021, , .		0
77	Cascaded Predictive Current Control with a Piecewise Approach for Induction Machine Drives. , 2021, , .		0
78	Modulated Model Predictive Control of Power Electronics Transformer Based on Isolated Modular Multilevel Converter. , 2021, , .		3
79	Servo Press Drive Using Predictive Torque Control of Induction Motor. , 2021, , .		0
80	Processor-in-the Loop Test and Experimental Validations for developed Nine level PV Inverter using High Performance ARM-STM32F407. , 2021, , .		0
81	Predictive Fixed Switching Maximum Power Point Tracking Algorithm with Dual Adaptive Step-Size for PV Systems. Electronics (Switzerland), 2021, 10, 3109.	3.1	5
82	Optimized Angular Position Control of Brushless DC Motor Using Imperialist Competitive Algorithm Based on FOC and Trapezoidal Control. , 2021, , .		0
83	Implementation of a Long-Horizon Model Predictive Control Algorithm on an Embedded System. , 2021, , .		1
84	An Assessment of Finite Control Set Predictive Current Control with Concept of Variable Switching Point or Parallel Cost Function for Induction Motor. , 2021, , .		0
85	Verification of the Analytical Torque Calculation and Active Weight Optimization for a Scalable Axial Flux Motor. , 2021, , .		2
86	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
87	Parallel Predictive Torque Control for Induction Machines Without Weighting Factors. IEEE Transactions on Power Electronics, 2020, 35, 1779-1788.	7.9	121
88	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
89	Efficient model predictive power control with online inductance estimation for photovoltaic inverters. Electrical Engineering, 2020, 102, 549-562.	2.0	12
90	PWM-based Sensorless Control of Electrically Excited Synchronous Machine Using Mutual Inductance. , 2020, , .		1

#	ARTICLE	IF	CITATIONS
91	Improved Direct-Model Predictive Control with a Simple Disturbance Observer for DFIGs. , 2020, , .		2
92	Structural Mechanical Limitations of Dynamics of Servo Drives. , 2020, , .		0
93	Variable Switching Point Parallel Predictive Current Control (VSP3CC) for Induction Motor. , 2020, , .		4
94	Data Preparation and Training Methodology for Modeling Lithium-Ion Batteries Using a Long Short-Term Memory Neural Network for Mild-Hybrid Vehicle Applications. Applied Sciences (Switzerland), 2020, 10, 7880.	2.5	7
95	Limited-Position Set Model-Reference Adaptive Observer for Control of DFIGs without Mechanical Sensors. Machines, 2020, 8, 72.	2.2	12
96	Influence of the PWM Frequency on Dynamic and Position Stability of Servo Drives. , 2020, , .		1
97	Robust Sensorless Direct Speed Predictive Control of Synchronous Reluctance Motor. , 2020, , .		2
98	Advanced Strategy of Speed Predictive Control for Nonlinear Synchronous Reluctance Motors. Machines, 2020, 8, 44.	2.2	14
99	Model-Based Control of Nonlinear Wire Tension in Dynamic Needle Winding Processes. , 2020, , .		5
100	A Robust Maximum Power Point Tracking Based Model Predictive Control and Extended Kalman Filter for PV Systems. , 2020, , .		6
101	Variable Switching Point Parallel Predictive Torque Control (VSP3TC) for Induction Motor. , 2020, , .		2
102	Model Predictive Control of Power Electronic Systems: Methods, Results, and Challenges. IEEE Open Journal of Industry Applications, 2020, 1, 95-114.	6.5	231
103	Finite Control Set <scp>Modelâ€Predictive</scp> Speed Control with a Load Torque Compensation. IEEE Transactions on Electrical and Electronic Engineering, 2020, 15, 1530-1540.	1.4	5
104	Analytical flux linkage approximation prototypes for reluctance synchronous machines. , 2020, , .		5
105	Model Reference Adaptive System with Finite-Set for Encoderless Control of PMSGs in Micro-Grid Systems. Energies, 2020, 13, 4844.	3.1	10
106	Computationally Efficient Optimization Method for Model Predictive Pulse Pattern Control of Modular Multilevel Converters. , 2020, , .		3
107	An Adaptive Model-Based MPPT Technique with Drift-Avoidance for Grid-Connected PV Systems. Energies, 2020, 13, 6656.	3.1	20
108	Reduced-Complexity Model Predictive Control with Online Parameter Assessment for a Grid-Connected Single-Phase Multilevel Inverter. Sustainability, 2020, 12, 7997.	3.2	13

#	ARTICLE	IF	CITATIONS
109	Solid State Transformers: Concepts, Classification, and Control. <i>Energies</i> , 2020, 13, 2319.	3.1	45
110	Single-Stage Control System of I-MMC-Based Island MVDC Link Receiver With Multiple Modulation Freedoms. <i>IEEE Access</i> , 2020, 8, 10088-10097.	4.2	11
111	Improved Direct Model Predictive Control for Grid-Connected Power Converters. <i>Energies</i> , 2020, 13, 2597.	3.1	13
112	A Phase-Shift-Modulated LLC-Resonant Micro-Inverter Based on Fixed Frequency Predictive-MPPT. <i>Energies</i> , 2020, 13, 1460.	3.1	10
113	Highly Efficient and Robust Grid Connected Photovoltaic System Based Model Predictive Control with Kalman Filtering Capability. <i>Sustainability</i> , 2020, 12, 4542.	3.2	26
114	Predictive Current Trajectory Control for PMSM at Voltage Limit. <i>IEEE Access</i> , 2020, 8, 1670-1679.	4.2	24
115	On Offset-Free Continuous Model Predictive Current Control of Permanent Magnet Synchronous Motors. <i>IFAC-PapersOnLine</i> , 2020, 53, 6662-6669.	0.9	12
116	Simplified Sensorless Current Predictive Control of Synchronous Reluctance Motor Using Online Parameter Estimation. <i>Energies</i> , 2020, 13, 492.	3.1	26
117	Robust Parallel Predictive Torque Control with Model Reference Adaptive Estimator for IM Drives. , 2020, , .		1
118	Wide CCM region modulation technique with low current ripples for impedance source inverters. <i>IET Power Electronics</i> , 2020, 13, 4235-4243.	2.1	0
119	A Comparison of Two State-Space Models of an Induction Machine Considering Different Sets of Winding Distribution Harmonics. , 2020, , .		1
120	Direct Model Predictive Control of a Single-Phase Grid-Connected Siwakoti-H Inverter. , 2020, , .		1
121	Deadbeat Control for AC Drive Systems with Optimal Dynamic Performance. , 2020, , .		3
122	Over-modulation Method of Modulated Model Predictive Control for Matrix Converters. , 2020, , .		2
123	Simplified Model Predictive Current Control for Single-Phase Multilevel Inverter. , 2020, , .		4
124	Flux Linkage-Based Model Predictive Current Control for Nonlinear PMSM Drives. , 2020, , .		4
125	Long-Horizon Direct Model Predictive Control Based on Neural Networks for Electrical Drives. , 2020, , .		16
126	Servo Brake Control based on Finite Control Set Model Predictive Control with a Voltage Smoother. , 2020, , .		3



#	ARTICLE	IF	CITATIONS
127	Comparative Study of Model Predictive Control for Modular Multilevel Converters with Separate and Decoupled Circulating Current. , 2020, , .		1
128	Model Predictive Control of a Shunt Active Power Filter with Improved Dynamics Under Distorted Grid Conditions. , 2020, , .		2
129	Model Predictive Control for Modular Multilevel Converters based on a Box-constrained Quadratic Problem Solver. , 2020, , .		0
130	Model Predictive Torque Control of Induction Motor Drives with Computed Torque for Servo Press. , 2020, , .		3
131	Evaluation of Predictive Direct Current and Direct Power Control for Grid-connected PV Systems. , 2020, , .		2
132	Model Predictive Control with Switching Frequency Minimization for Modified Packed U-cell Inverter. , 2020, , .		4
133	Sliding Mode Flux Observer Based Predictive Field Oriented Control for Induction Machine Drives. , 2020, , .		9
134	Predictive Field Oriented Control based on MRAS Current Estimator for IM Drives. , 2020, , .		2
135	Operating Point Dependent Variable Switching Point Predictive Current Control for PMSM Drives. , 2019, , .		7
136	Optimized capacitive active ripple compensation topology for a 3.7ÂkW single-phase high power density on-board charger of electric vehicles. Electrical Engineering, 2019, 101, 685-697.	2.0	1
137	Stability Prediction and Damping Enhancement for MVdc Railway Electrification System. IEEE Transactions on Industry Applications, 2019, 55, 7683-7698.	4.9	10
138	Efficient Finite-Position-Set MRAS Observer for Encoder-less Control of DFIGs. , 2019, , .		5
139	Model Predictive Control of Modular Multilevel Converters with Independent Arm-Balancing Control. , 2019, , .		9
140	Servo Press Drive using Model Predictive Control of Motor Current. , 2019, , .		5
141	High-Efficiency Design and Close-loop Power Distribution Control for Double-Frequency Double-Load Magnetically Coupled Resonant Wireless Power Transfer System. , 2019, , .		4
142	Sliding-Mode MRAS based Encoderless Predictive Torque Control for Induction Machine. , 2019, , .		4
143	UltraZohm - a Powerful Real-Time Computation Platform for MPC and Multi-Level Inverters. , 2019, , .		22
144	Direct Model Predictive Power Control of a Series-Connected Modular Rectifier. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
145	Bandwidth Improvements for Current Control Loops with a 100 kHz PWM Frequency and GaN Power Semiconductors. , 2019, , .		4
146	Comparison of state-of-the-art estimators for electrical parameter identification of PMSM. , 2019, , .		16
147	Bandwidth Improvements of Linear Direct Drives with a 100 kHz PWM-Frequency. , 2019, , .		4
148	FEM based analysis of the impact of temperature on the stability range of anisotropy based encoderless control schemes. , 2019, , .		2
149	Model Predictive Control with Reduced Integration Step Size for Continuous Control of an IPM Motor. , 2019, , .		4
150	Sensorless Control for Permanent Magnet Synchronous Motor in Rail Transit Application Using Segmented Synchronous Modulation. IEEE Access, 2019, 7, 76669-76679.	4.2	8
151	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
152	Energy Efficient Control of Synchronous Machines in Deep Field-Weakening Operation Including Saturation Effects. , 2019, , .		1
153	A Discrete-Time Model of Induction Machines Including Winding Distribution Harmonics. , 2019, , .		1
154	A Modified Sphere Decoder for Online Adjustment of the Switching Frequency. , 2019, , .		0
155	Enhanced Sensorless Model Predictive Control of Induction Motor Based on Extended Kalman Filter. , 2019, , .		3
156	High-Performance Position Sensorless control of Reluctance Synchronous Motor using High-Frequency Injection. , 2019, , .		1
157	A Real-Time Compliant State-Space Model of Induction Machines Including Winding Distribution Harmonics and Winding Interconnections. , 2019, , .		5
158	Finite-Set MRAS Observer for Encoderless Control of PMSGs in Wind Turbine Applications. , 2019, , .		2
159	Computationally Efficient Finite-Set Model Predictive Current Control of Interior Permanent Magnet Synchronous Motors with Model-Based Online Inductance Estimation. , 2019, , .		4
160	Predictive Direct Torque Control of Permanent Magnet Synchronous Generators (PMSGs) without Weighting Factors. , 2019, , .		2
161	Tube-based robust current control of induction motors. , 2019, , .		1
162	Experimental Evaluation of Cascaded Continuous and Finite Set Model Predictive Speed Control for Electrical Drives. , 2019, , .		2

#	ARTICLE	IF	CITATIONS
163	A General Coordinate Transformation Based on Fourier Matrices for Modelling Space Harmonics in Induction Machines. , 2019, , .		3
164	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
165	Efficient Direct-Model Predictive Control With Discrete-Time Integral Action for PMSGs. IEEE Transactions on Energy Conversion, 2019, 34, 1063-1072.	5.2	63
166	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
167	Model Predictive Control with Extrapolation Strategy for the Arm Current Commutation Control of Modular Multilevel Converter Operating in Quasi Two-Level Mode. , 2019, , .		4
168	A Fast and Precise Grid Synchronization Method Based on Fixed-Gain Filter. IEEE Transactions on Industrial Electronics, 2018, 65, 7119-7128.	7.9	39
169	On the Choice of Norm in Finite Control Set Model Predictive Control. IEEE Transactions on Power Electronics, 2018, 33, 7105-7117.	7.9	71
170	Dynamic Testing Characterization of a Synchronous Reluctance Machine. IEEE Transactions on Industry Applications, 2018, 54, 1370-1378.	4.9	20
171	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
172	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
173	Torque disturbance observer based model predictive control for electric drives. , 2018, , .		0
174	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
175	Implementation and experimental investigation of a sensorless field-oriented control scheme for permanent-magnet synchronous generators. Electrical Engineering, 2018, 100, 849-856.	2.0	22
176	Multicopter With Series Connected Propeller Drives. IEEE Transactions on Control Systems Technology, 2018, 26, 563-574.	5.2	6
177	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
178	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
179	Finite set model predictive control with on-line parameter estimation for active frond-end converters. Electrical Engineering, 2018, 100, 1497-1507.	2.0	27
180	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

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181	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
182	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
183	Simplified Predictive Torque Control of Five Phase Permanent Magnet Motor with Non-Sinusoidal Back-EMF. , 2018, , .		2
184	Finite Control Set-Model Predictive Speed Control with a Voltage Smoother. , 2018, , .		5
185	Predictive Current Control of Five Phase Permanent Magnet Motor with Non-sinusoidal Back-EMF. , 2018, , .		0
186	Variable Cost Functionsâ€™ Sequence Design for Model Predictive Control of IPMSM without Weighting Factor. , 2018, , .		4
187	A Simple and Efficient State-Space Model of Induction Machines with Interconnected Windings Including Space Harmonics. , 2018, , .		5
188	Model Predictive Control of a Three-Level NPC Rectifier with a Sliding Manifold Term. , 2018, , .		2
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