

Guoqiang Zhang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

81
papers

1,626
citations

21
h-index

40
g-index

100
ext. papers

2,245
ext. citations

6.5
avg, IF

5.11
L-index

#	Paper	IF	Citations
81	Phase Current Reconstruction Error Suppression Method for Single DC-Link Shunt PMSM Drives at Low-Speed Region. <i>IEEE Transactions on Power Electronics</i> , 2022 , 37, 7067-7081	7.2	1
80	Online Temperature Identification Strategy for Position Sensorless PMSM Drives With Position Error Adaptive Compensation. <i>IEEE Transactions on Power Electronics</i> , 2022 , 1-1	7.2	2
79	Fuzzy Self-tuning Torque Control Strategy 2022 , 105-121		
78	Speed Detection Method at Low-Speed Operation 2022 , 67-87		
77	Starting Torque Control Strategy Based on Offset-Free Model Predictive Control Theory 2022 , 123-140		
76	Mathematical Model of Gearless PMSM Traction Elevators 2022 , 11-37		
75	Initial Position Detection for PMSM Traction Drives 2022 , 39-66		
74	ADRC Strategy for Gearless PMSM Traction Elevators 2022 , 163-181		
73	Enhanced MPC for Rollback Mitigation During Elevator Startup 2022 , 141-161		
72	Starting Torque Control Based on Dichotomy and Staircase Methods 2022 , 89-103		
71	Permanent Magnet Synchronous Motor Traction System An Overview 2022 , 1-9		
70	Nonlinear Active Disturbance Rejection Control Strategy for Permanent Magnet Synchronous Motor Drives. <i>IEEE Transactions on Energy Conversion</i> , 2022 , 1-1	5.4	1
69	Analysis and Compensation of Position Estimation Error for Sensorless Reduced DC-Link Capacitance IPMSM Drives. <i>IEEE Transactions on Industrial Electronics</i> , 2022 , 1-1	8.9	
68	Torque Ripple Compensation with Anti-Overvoltage for Electrolytic Capacitor-less PMSM Compressor Drives. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2022 , 1-1	5.6	
67	Basic Knowdge of AC Motor Drives 2021 , 1-25		
66	High Power Factor Control of Grid Input Current 2021 , 27-52		
65	Resonance Suppression Between Line Inductor and DC-Link Capacitor 2021 , 53-83		

64 Impedance Model Based Stability Control **2021**, 85-101

63 Analysis and Suppression of Beat Phenomenon **2021**, 103-121

62 Flux-Weakening Control Method **2021**, 123-146

61 Motor Loss Based Anti-Overvoltage Control **2021**, 147-187

60 Optimized Overmodulation Strategy **2021**, 189-211

59 An Inverter-Nonlinearity-Immune Offline Inductance Identification Method for PMSM Drives Based on Equivalent Impedance Model. *IEEE Transactions on Power Electronics*, **2021**, 1-1 7.2 1

58 Adaptive Iterative Learning Control Based Rotor Position Harmonic Error Suppression Method for Sensorless PMSM Drives. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1 8.9 3

57 Position and Speed Detection Method Based on Adaptive Extended Moving-Window Linear Regression for Traction Machine Drives. *IEEE Transactions on Transportation Electrification*, **2021**, 1-1 7.6 0

56 Crosstalk Suppression Method for GaN-Based Bridge Configuration Using Negative Voltage Self-Recovery Gate Drive. *IEEE Transactions on Power Electronics*, **2021**, 1-1 7.2 1

55 An Impedance Model-Based Multiparameter Identification Method of PMSM for Both Offline and Online Conditions. *IEEE Transactions on Power Electronics*, **2021**, 36, 727-738 7.2 26

54 Torque Ripples Minimization of Sensorless SynRM Drives for Low-Speed Operation Using Bi-HFSI Scheme. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 5559-5570 8.9 4

53 Adaptive Pseudorandom High-Frequency Square-Wave Voltage Injection Based Sensorless Control for SynRM Drives. *IEEE Transactions on Power Electronics*, **2021**, 36, 3200-3210 7.2 12

52 Modeling and Analysis of Bridge-Leg Crosstalk of GaN HEMT Considering Nonlinear Junction Capacitances. *IEEE Transactions on Power Electronics*, **2021**, 36, 4429-4439 7.2 5

51 Suppression of Beat Phenomenon for Electrolytic Capacitorless Motor Drives Accounting for Sampling Delay of DC Link Voltage. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1 8.9 1

50 Current Vector Angle Adaptive Adjustment Based Rotor Position Offset Error Suppression Method for Sensorless PMSM Drives. *IEEE Transactions on Power Electronics*, **2021**, 36, 10536-10547 7.2 2

49 Position and Speed Detection Method Based on Cross-Decoupling Network Filtering for Gearless Traction Motor Drives at Low-Speed Operation. *IEEE Transactions on Power Electronics*, **2021**, 36, 11862-11874 7.2 2

48 Online Estimation Method of DC-Link Capacitors for Reduced DC-Link Capacitance IPMSM Drives. *IEEE Transactions on Power Electronics*, **2021**, 36, 12196-12201 7.2 3

47 An Offline Parameter Self-Learning Method Considering Inverter Nonlinearity With Zero-Axis Voltage. *IEEE Transactions on Power Electronics*, **2021**, 36, 14098-14109 7.2 4

46	Hybrid Pseudorandom Signal Injection for Position Sensorless SynRM Drives with Acoustic Noise Reduction. <i>IEEE Transactions on Transportation Electrification</i> , 2021 , 1-1	7.6	4
45	Current Sensor Fault-Tolerant Control Strategy for Encoderless PMSM Drives Based on Single Sliding Mode Observer. <i>IEEE Transactions on Transportation Electrification</i> , 2020 , 6, 679-689	7.6	24
44	Low-Noise Initial Position Detection Method for Sensorless Permanent Magnet Synchronous Motor Drives. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 13333-13344	7.2	10
43	A Five-Level Space Vector Modulation Scheme for Parallel Operated Three-Level Inverters With Reduced Line Current Distortion. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 11235-11249	7.2	5
42	Implementation of Five-Level DPWM on Parallel Three-Level Inverters to Reduce Common-Mode Voltage and AC Current Ripples. <i>IEEE Transactions on Industry Applications</i> , 2020 , 56, 4017-4027	4.3	7
41	Practical Issues of Sensorless Control for PMSM Drives 2020 , 281-295		
40	Saliency-Tracking-Based Sensorless Control for PMSM Drives 2020 , 37-80		0
39	Low-Frequency Ratio Sensorless Control for High-Speed PMSM Drives 2020 , 203-232		
38	Current Sensor Fault-Tolerant Control for Encoderless IPMSM Drives Based on Current Space Vector Error Reconstruction. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020 , 8, 3658-3668	5.6	14
37	An Antiovervoltage Control Scheme for Electrolytic Capacitorless IPMSM Drives Based on Stator Current Vector Orientation. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 3517-3527	8.9	6
36	Dual Antiovervoltage Control Scheme for Electrolytic Capacitorless IPMSM Drives With Coefficient Autoregulation. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 2895-2907	7.2	5
35	Pseudorandom-Frequency Sinusoidal Injection for Position Sensorless IPMSM Drives Considering Sample and Hold Effect. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 9929-9941	7.2	12
34	Pseudorandom-Frequency Sinusoidal Injection Based Sensorless IPMSM Drives With Tolerance for System Delays. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 3623-3632	7.2	21
33	Impedance Based Stabilization Control Method for Reduced DC-Link Capacitance IPMSM Drives. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 9879-9890	7.2	8
32	Current Sensor Fault Diagnosis and Fault-Tolerant Control for Encoderless PMSM Drives Based on Dual Sliding-Mode Observers 2019 ,		6
31	Offline Parameter Self-Learning Method for General-Purpose PMSM Drives With Estimation Error Compensation. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 11103-11115	7.2	49
30	Sensorless Control Scheme of IPMSMs Using HF Orthogonal Square-Wave Voltage Injection Into a Stationary Reference Frame. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 2573-2584	7.2	43
29	High Frequency Torque Ripple Suppression for High Frequency Signal Injection Based Sensorless Control of SynRMs 2019 ,		2

28	Position Error Fluctuation Elimination for Model-Based Self-Sensing IPMSM Drives Incorporating ROGI Decoupling Network 2019 ,		1
27	Saliency-Based Sensorless Control for SynRM Drives With Suppression of Position Estimation Error. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 5839-5849	8.9	21
26	Enhanced Flux-Weakening Control Method for Reduced DC-Link Capacitance IPMSM Drives. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 7788-7799	7.2	16
25	Rotor Position Estimation of PMSM in Low-Speed Region and Standstill Using Zero-Voltage Vector Injection. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 7948-7958	7.2	52
24	A review of sensorless control methods for AC motor drives. <i>CES Transactions on Electrical Machines and Systems</i> , 2018 , 2, 104-115	2.3	91
23	Active Disturbance Rejection Control Strategy for Signal Injection-Based Sensorless IPMSM Drives. <i>IEEE Transactions on Transportation Electrification</i> , 2018 , 4, 330-339	7.6	47
22	A Novel Demodulation Method Based High-Frequency Signal Injection for Sensorless SPMSM Control Considering Cross-Saturation Effect 2018 ,		1
21	A Speed Adaptive Scheme-Based Full-Order Observer for Sensorless Induction Motor Drives in Low-Speed Regenerating Operation Range 2018 ,		4
20	Maximum Torque Increase and Performance Optimization for Induction Motor Field-Weakening Control 2018 ,		1
19	Fault Diagnosis Method of Current Sensor for Permanent Magnet Synchronous Motor Drives 2018 ,		7
18	Comparative Investigation of Pseudorandom High-Frequency Signal Injection Schemes for Sensorless IPMSM Drives. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 2123-2132	7.2	76
17	Discrete-Time Low-Frequency-Ratio Synchronous-Frame Full-Order Observer for Position Sensorless IPMSM Drives. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2017 , 5, 870-879	5.6	30
16	Saliency-based position sensorless control methods for PMSM drives - A review. <i>Chinese Journal of Electrical Engineering</i> , 2017 , 3, 14-23	4	20
15	Square-Wave Voltage Injection Algorithm for PMSM Position Sensorless Control With High Robustness to Voltage Errors. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 5425-5437	7.2	75
14	Pseudo-Random High-Frequency Square-Wave Voltage Injection Based Sensorless Control of IPMSM Drives for Audible Noise Reduction. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 7423-7433	8.9	69
13	ADALINE-Network-Based PLL for Position Sensorless Interior Permanent Magnet Synchronous Motor Drives. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 1450-1460	7.2	148
12	Multiple-AVF Cross-Feedback-Network-Based Position Error Harmonic Fluctuation Elimination for Sensorless IPMSM Drives. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 821-831	8.9	43
11	Synchronous Switching of Non-Line-Start Permanent Magnet Synchronous Machines From Inverter to Grid Drives. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 3717-3727	7.2	6

10	Maximum Efficiency Per Ampere Control of Permanent-Magnet Synchronous Machines. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 2135-2143	8.9	91
9	Self-Commissioning of Permanent Magnet Synchronous Machine Drives at Standstill Considering Inverter Nonlinearities. <i>IEEE Transactions on Power Electronics</i> , 2014 , 29, 6615-6627	7.2	70
8	Weight-Transducerless Starting Torque Compensation of Gearless Permanent-Magnet Traction Machine for Direct-Drive Elevators. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 4594-4604	8.9	16
7	Enhanced Position Observer Using Second-Order Generalized Integrator for Sensorless Interior Permanent Magnet Synchronous Motor Drives. <i>IEEE Transactions on Energy Conversion</i> , 2014 , 29, 486-495	5.4	75
6	Improvements in permanent magnet synchronous machines with delta-connected winding 2014 ,		4
5	Remanufacturing of low-efficiency induction machines with interior permanent-magnet rotors for energy efficiency improvement 2014 ,		1
4	Position Estimation Error Reduction Using Recursive-Least-Square Adaptive Filter for Model-Based Sensorless Interior Permanent-Magnet Synchronous Motor Drives. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 5115-5125	8.9	84
3	Adaptive Compensation Method of Position Estimation Harmonic Error for EMF-Based Observer in Sensorless IPMSM Drives. <i>IEEE Transactions on Power Electronics</i> , 2014 , 29, 3055-3064	7.2	124
2	Quadrature PLL-Based High-Order Sliding-Mode Observer for IPMSM Sensorless Control With Online MTPA Control Strategy. <i>IEEE Transactions on Energy Conversion</i> , 2013 , 28, 214-224	5.4	134
1	. <i>IEEE Transactions on Industry Applications</i> , 2012 , 48, 996-1005	4.3	32