

# Guoqiang Zhang

## List of Publications by Citations

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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	ADALINE-Network-Based PLL for Position Sensorless Interior Permanent Magnet Synchronous Motor Drives. <i>IEEE Transactions on Power Electronics</i> , <b>2016</b> , 31, 1450-1460	7.2	148
80	Quadrature PLL-Based High-Order Sliding-Mode Observer for IPMSM Sensorless Control With Online MTPA Control Strategy. <i>IEEE Transactions on Energy Conversion</i> , <b>2013</b> , 28, 214-224	5.4	134
79	Adaptive Compensation Method of Position Estimation Harmonic Error for EMF-Based Observer in Sensorless IPMSM Drives. <i>IEEE Transactions on Power Electronics</i> , <b>2014</b> , 29, 3055-3064	7.2	124
78	Maximum Efficiency Per Ampere Control of Permanent-Magnet Synchronous Machines. <i>IEEE Transactions on Industrial Electronics</i> , <b>2015</b> , 62, 2135-2143	8.9	91
77	A review of sensorless control methods for AC motor drives. <i>CES Transactions on Electrical Machines and Systems</i> , <b>2018</b> , 2, 104-115	2.3	91
76	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> , <b>2014</b> , 61, 5115-5125	8.9	84
75	Comparative Investigation of Pseudorandom High-Frequency Signal Injection Schemes for Sensorless IPMSM Drives. <i>IEEE Transactions on Power Electronics</i> , <b>2017</b> , 32, 2123-2132	7.2	76
74	Enhanced Position Observer Using Second-Order Generalized Integrator for Sensorless Interior Permanent Magnet Synchronous Motor Drives. <i>IEEE Transactions on Energy Conversion</i> , <b>2014</b> , 29, 486-495	5.4	75
73	Square-Wave Voltage Injection Algorithm for PMSM Position Sensorless Control With High Robustness to Voltage Errors. <i>IEEE Transactions on Power Electronics</i> , <b>2017</b> , 32, 5425-5437	7.2	75
72	Self-Commissioning of Permanent Magnet Synchronous Machine Drives at Standstill Considering Inverter Nonlinearities. <i>IEEE Transactions on Power Electronics</i> , <b>2014</b> , 29, 6615-6627	7.2	70
71	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> , <b>2016</b> , 63, 7423-7433	8.9	69
70	Rotor Position Estimation of PMSM in Low-Speed Region and Standstill Using Zero-Voltage Vector Injection. <i>IEEE Transactions on Power Electronics</i> , <b>2018</b> , 33, 7948-7958	7.2	52
69	Offline Parameter Self-Learning Method for General-Purpose PMSM Drives With Estimation Error Compensation. <i>IEEE Transactions on Power Electronics</i> , <b>2019</b> , 34, 11103-11115	7.2	49
68	Active Disturbance Rejection Control Strategy for Signal Injection-Based Sensorless IPMSM Drives. <i>IEEE Transactions on Transportation Electrification</i> , <b>2018</b> , 4, 330-339	7.6	47
67	Multiple-AVF Cross-Feedback-Network-Based Position Error Harmonic Fluctuation Elimination for Sensorless IPMSM Drives. <i>IEEE Transactions on Industrial Electronics</i> , <b>2016</b> , 63, 821-831	8.9	43
66	Sensorless Control Scheme of IPMSMs Using HF Orthogonal Square-Wave Voltage Injection Into a Stationary Reference Frame. <i>IEEE Transactions on Power Electronics</i> , <b>2019</b> , 34, 2573-2584	7.2	43
65	. <i>IEEE Transactions on Industry Applications</i> , <b>2012</b> , 48, 996-1005	4.3	32

64	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> , <b>2017</b> , 5, 870-879	5.6	30
63	An Impedance Model-Based Multiparameter Identification Method of PMSM for Both Offline and Online Conditions. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 727-738	7.2	26
62	Current Sensor Fault-Tolerant Control Strategy for Encoderless PMSM Drives Based on Single Sliding Mode Observer. <i>IEEE Transactions on Transportation Electrification</i> , <b>2020</b> , 6, 679-689	7.6	24
61	Pseudorandom-Frequency Sinusoidal Injection Based Sensorless IPMSM Drives With Tolerance for System Delays. <i>IEEE Transactions on Power Electronics</i> , <b>2019</b> , 34, 3623-3632	7.2	21
60	Saliency-Based Sensorless Control for SynRM Drives With Suppression of Position Estimation Error. <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 66, 5839-5849	8.9	21
59	Saliency-based position sensorless control methods for PMSM drives - A review. <i>Chinese Journal of Electrical Engineering</i> , <b>2017</b> , 3, 14-23	4	20
58	Weight-Transducerless Starting Torque Compensation of Gearless Permanent-Magnet Traction Machine for Direct-Drive Elevators. <i>IEEE Transactions on Industrial Electronics</i> , <b>2014</b> , 61, 4594-4604	8.9	16
57	Enhanced Flux-Weakening Control Method for Reduced DC-Link Capacitance IPMSM Drives. <i>IEEE Transactions on Power Electronics</i> , <b>2019</b> , 34, 7788-7799	7.2	16
56	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> , <b>2020</b> , 8, 3658-3668	5.6	14
55	Pseudorandom-Frequency Sinusoidal Injection for Position Sensorless IPMSM Drives Considering Sample and Hold Effect. <i>IEEE Transactions on Power Electronics</i> , <b>2019</b> , 34, 9929-9941	7.2	12
54	Adaptive Pseudorandom High-Frequency Square-Wave Voltage Injection Based Sensorless Control for SynRM Drives. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 3200-3210	7.2	12
53	Low-Noise Initial Position Detection Method for Sensorless Permanent Magnet Synchronous Motor Drives. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 13333-13344	7.2	10
52	Impedance Based Stabilization Control Method for Reduced DC-Link Capacitance IPMSM Drives. <i>IEEE Transactions on Power Electronics</i> , <b>2019</b> , 34, 9879-9890	7.2	8
51	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> , <b>2020</b> , 56, 4017-4027	4.3	7
50	Fault Diagnosis Method of Current Sensor for Permanent Magnet Synchronous Motor Drives <b>2018</b> ,		7
49	Current Sensor Fault Diagnosis and Fault-Tolerant Control for Encoderless PMSM Drives Based on Dual Sliding-Mode Observers <b>2019</b> ,		6
48	Synchronous Switching of Non-Line-Start Permanent Magnet Synchronous Machines From Inverter to Grid Drives. <i>IEEE Transactions on Power Electronics</i> , <b>2016</b> , 31, 3717-3727	7.2	6
47	An Antiovervoltage Control Scheme for Electrolytic Capacitorless IPMSM Drives Based on Stator Current Vector Orientation. <i>IEEE Transactions on Industrial Electronics</i> , <b>2020</b> , 67, 3517-3527	8.9	6

46	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> , <b>2020</b> , 35, 11235-11249	7.2	5
45	Dual Antiovervoltage Control Scheme for Electrolytic Capacitorless IPMSM Drives With Coefficient Autoregulation. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 2895-2907	7.2	5
44	Modeling and Analysis of Bridge-Leg Crosstalk of GaN HEMT Considering Nonlinear Junction Capacitances. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 4429-4439	7.2	5
43	Improvements in permanent magnet synchronous machines with delta-connected winding <b>2014</b> ,		4
42	Torque Ripples Minimization of Sensorless SynRM Drives for Low-Speed Operation Using Bi-HFSI Scheme. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 68, 5559-5570	8.9	4
41	A Speed Adaptive Scheme-Based Full-Order Observer for Sensorless Induction Motor Drives in Low-Speed Regenerating Operation Range <b>2018</b> ,		4
40	An Offline Parameter Self-Learning Method Considering Inverter Nonlinearity With Zero-Axis Voltage. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 14098-14109	7.2	4
39	Hybrid Pseudorandom Signal Injection for Position Sensorless SynRM Drives with Acoustic Noise Reduction. <i>IEEE Transactions on Transportation Electrification</i> , <b>2021</b> , 1-1	7.6	4
38	Adaptive Iterative Learning Control Based Rotor Position Harmonic Error Suppression Method for Sensorless PMSM Drives. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 1-1	8.9	3
37	Online Estimation Method of DC-Link Capacitors for Reduced DC-Link Capacitance IPMSM Drives. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 12196-12201	7.2	3
36	High Frequency Torque Ripple Suppression for High Frequency Signal Injection Based Sensorless Control of SynRMs <b>2019</b> ,		2
35	Online Temperature Identification Strategy for Position Sensorless PMSM Drives With Position Error Adaptive Compensation. <i>IEEE Transactions on Power Electronics</i> , <b>2022</b> , 1-1	7.2	2
34	Current Vector Angle Adaptive Adjustment Based Rotor Position Offset Error Suppression Method for Sensorless PMSM Drives. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 10536-10547	7.2	2
33	Position and Speed Detection Method Based on Cross-Decoupling Network Filtering for Gearless Traction Motor Drives at Low-Speed Operation. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 11862-11874	7.2	2
32	A Novel Demodulation Method Based High-Frequency Signal Injection for Sensorless SPMSM Control Considering Cross-Saturation Effect <b>2018</b> ,		1
31	Remanufacturing of low-efficiency induction machines with interior permanent-magnet rotors for energy efficiency improvement <b>2014</b> ,		1
30	Phase Current Reconstruction Error Suppression Method for Single DC-Link Shunt PMSM Drives at Low-Speed Region. <i>IEEE Transactions on Power Electronics</i> , <b>2022</b> , 37, 7067-7081	7.2	1
29	An Inverter-Nonlinearity-Immune Offline Inductance Identification Method for PMSM Drives Based on Equivalent Impedance Model. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 1-1	7.2	1

28	Crosstalk Suppression Method for GaN-Based Bridge Configuration Using Negative Voltage Self-Recovery Gate Drive. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 1-1	7.2	1
27	Position Error Fluctuation Elimination for Model-Based Self-Sensing IPMSM Drives Incorporating ROGI Decoupling Network <b>2019</b> ,		1
26	Suppression of Beat Phenomenon for Electrolytic Capacitorless Motor Drives Accounting for Sampling Delay of DC Link Voltage. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 1-1	8.9	1
25	Maximum Torque Increase and Performance Optimization for Induction Motor Field-Weakening Control <b>2018</b> ,		1
24	Nonlinear Active Disturbance Rejection Control Strategy for Permanent Magnet Synchronous Motor Drives. <i>IEEE Transactions on Energy Conversion</i> , <b>2022</b> , 1-1	5.4	1
23	Position and Speed Detection Method Based on Adaptive Extended Moving-Window Linear Regression for Traction Machine Drives. <i>IEEE Transactions on Transportation Electrification</i> , <b>2021</b> , 1-1	7.6	0
22	Saliency-Tracking-Based Sensorless Control for PMSM Drives <b>2020</b> , 37-80		0
21	Basic Knowdge of AC Motor Drives <b>2021</b> , 1-25		
20	High Power Factor Control of Grid Input Current <b>2021</b> , 27-52		
19	Resonance Suppression Between Line Inductor and DC-Link Capacitor <b>2021</b> , 53-83		
18	Impedance Model Based Stability Control <b>2021</b> , 85-101		
17	Analysis and Suppression of Beat Phenomenon <b>2021</b> , 103-121		
16	Flux-Weakening Control Method <b>2021</b> , 123-146		
15	Motor Loss Based Anti-Overvoltage Control <b>2021</b> , 147-187		
14	Optimized Overmodulation Strategy <b>2021</b> , 189-211		
13	Practical Issues of Sensorless Control for PMSM Drives <b>2020</b> , 281-295		
12	Low-Frequency Ratio Sensorless Control for High-Speed PMSM Drives <b>2020</b> , 203-232		
11	Fuzzy Self-tuning Torque Control Strategy <b>2022</b> , 105-121		

10 Speed Detection Method at Low-Speed Operation **2022**, 67-87

9 Starting Torque Control Strategy Based on Offset-Free Model Predictive Control Theory **2022**, 123-140

8 Mathematical Model of Gearless PMSM Traction Elevators **2022**, 11-37

7 Initial Position Detection for PMSM Traction Drives **2022**, 39-66

6 ADRC Strategy for Gearless PMSM Traction Elevators **2022**, 163-181

5 Enhanced MPC for Rollback Mitigation During Elevator Startup **2022**, 141-161

4 Starting Torque Control Based on Dichotomy and Staircase Methods **2022**, 89-103

3 Permanent Magnet Synchronous Motor Traction System An Overview **2022**, 1-9

2 Analysis and Compensation of Position Estimation Error for Sensorless Reduced DC-Link Capacitance IPMSM Drives. *IEEE Transactions on Industrial Electronics*, **2022**, 1-1 8.9

1 Torque Ripple Compensation with Anti-Overvoltage for Electrolytic Capacitor-less PMSM Compressor Drives. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2022**, 1-1 5.6