Xiaodong Sun

List of Publications by Citations

158 papers	3,334 citations	31 h-index	53 g-index
174 ext. papers	4,246 ext. citations	3.9 avg, IF	6.58 L-index

#	Paper	IF	Citations
158	Speed-Sensorless Vector Control of a Bearingless Induction Motor With Artificial Neural Network Inverse Speed Observer. *IEEE/ASME Transactions on Mechatronics*, **2013**, 18, 1357-1366	5.5	190
157	High-Performance Control for a Bearingless Permanent-Magnet Synchronous Motor Using Neural Network Inverse Scheme Plus Internal Model Controllers. *IEEE Transactions on Industrial Electronics*, **2016**, 63, 3479-3488	8.9	167
156	Internal Model Control for a Bearingless Permanent Magnet Synchronous Motor Based on Inverse System Method. *IEEE Transactions on Energy Conversion*, **2016**, 31, 1539-1548	5.4	158
155	Overview of Bearingless Permanent-Magnet Synchronous Motors. *IEEE Transactions on Industrial Electronics*, **2013**, 60, 5528-5538	8.9	148
154	State Feedback Control for a PM Hub Motor Based on Gray Wolf Optimization Algorithm. *IEEE Transactions on Power Electronics*, **2020**, 35, 1136-1146	7.2	113
153	Core Losses Analysis of a Novel 16/10 Segmented Rotor Switched Reluctance BSG Motor for HEVs Using Nonlinear Lumped Parameter Equivalent Circuit Model. *IEEE/ASME Transactions on Mechatronics*, **2018**, 23, 747-757	5.5	111
152	Precise control of a four degree-of-freedom permanent magnet biased active magnetic bearing system in a magnetically suspended direct-driven spindle using neural network inverse scheme. *Mechanical Systems and Signal Processing*, **2017**, 88, 36-48	7.8	101
151	Analysis and Design Optimization of a Permanent Magnet Synchronous Motor for a Campus Patrol Electric Vehicle. *IEEE Transactions on Vehicular Technology*, **2019**, 68, 10535-10544	6.8	94
150	Study on Segmented-Rotor Switched Reluctance Motors With Different Rotor Pole Numbers for BSG System of Hybrid Electric Vehicles. *IEEE Transactions on Vehicular Technology*, **2019**, 68, 5537-5547	6.8	91
149	Multi-Objective Design Optimization of an IPMSM Based on Multilevel Strategy. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 139-148	8.9	86
148	Performance Analysis of Suspension Force and Torque in an IBPMSM With V-Shaped PMs for Flywheel Batteries. *IEEE Transactions on Magnetics*, **2018**, 54, 1-4	2	83
147	Speed Sensorless Control for Permanent Magnet Synchronous Motors Based on Finite Position Set. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 6089-6100	8.9	70
146	MPTC for PMSMs of EVs With Multi-Motor Driven System Considering Optimal Energy Allocation. *IEEE Transactions on Magnetics*, **2019**, 55, 1-6	2	69
145	An Improved Model Predictive Current Control for PMSM Drives Based on Current Track Circle. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 3782-3793	8.9	66
144	Grey Wolf Optimization Algorithm Based State Feedback Control for a Bearingless Permanent Magnet Synchronous Machine. *IEEE Transactions on Power Electronics*, **2020**, 35, 13631-13640	7.2	64
143	Multiobjective System Level Optimization Method for Switched Reluctance Motor Drive Systems Using Finite-Element Model. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 10055-10064	8.9	61
142	Performance Improvement of Torque and Suspension Force for a Novel Five-Phase BFSPM Machine for Flywheel Energy Storage Systems. *IEEE Transactions on Applied Superconductivity*, **2019**, 29, 1-5	1.8	61

141	. *IEEE Transactions on Applied Superconductivity*, **2019**, 29, 1-5	1.8	60
140	Robust Design Optimization of a Five-Phase PM Hub Motor for Fault-Tolerant Operation Based on Taguchi Method. *IEEE Transactions on Energy Conversion*, **2020**, 35, 2036-2044	5.4	56
139	Real-Time HIL Emulation for a Segmented-Rotor Switched Reluctance Motor Using a New Magnetic Equivalent Circuit. *IEEE Transactions on Power Electronics*, **2020**, 35, 3841-3849	7.2	56
138	A Robust Deadbeat Predictive Controller With Delay Compensation Based on Composite Sliding-Mode Observer for PMSMs. *IEEE Transactions on Power Electronics*, **2021**, 36, 10742-10752	7.2	51
137	Speed Sensorless Control of SPMSM Drives for EVs With a Binary Search Algorithm-Based Phase-Locked Loop. *IEEE Transactions on Vehicular Technology*, **2020**, 69, 4968-4978	6.8	45
136	Direct Torque Control Based on a Fast Modeling Method for a Segmented-Rotor Switched Reluctance Motor in HEV Application. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2021**, 9, 232-241	5.6	44
135	Adaptive Exponential Sliding Mode Control for a Bearingless Induction Motor Based on a Disturbance Observer. *IEEE Access*, **2018**, 6, 35425-35434	3.5	44
134	An adaptive ECMS with driving style recognition for energy optimization of parallel hybrid electric buses. *Energy*, **2019**, 189, 116151	7.9	43
133	Driving-Cycle-Oriented Design Optimization of a Permanent Magnet Hub Motor Drive System for a Four-Wheel-Drive Electric Vehicle. *IEEE Transactions on Transportation Electrification*, **2020**, 6, 1115-1125	7.6	38
132	Active Disturbance Rejection Control for Bearingless Induction Motor Based on Hyperbolic Tangent Tracking Differentiator. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2020**, 8, 2623-2633	5.6	38
131	An ANFIS-Based ECMS for Energy Optimization of Parallel Hybrid Electric Bus. *IEEE Transactions on Vehicular Technology*, **2020**, 69, 1473-1483	6.8	37
130	Multiobjective Design Optimization of an IPMSM for EVs Based on Fuzzy Method and Sequential Taguchi Method. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 10592-10600	8.9	32
129	System-Level Robust Design Optimization of a Switched Reluctance Motor Drive System Considering Multiple Driving Cycles. *IEEE Transactions on Energy Conversion*, **2021**, 36, 348-357	5.4	31
128	Torque Ripple Reduction of SRM Drive Using Improved Direct Torque Control With Sliding Mode Controller and Observer. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 9334-9345	8.9	31
127	Performance improvement of a switched reluctance machine with segmental rotors for hybrid electric vehicles. *Computers and Electrical Engineering*, **2019**, 77, 244-259	4.3	30
126	An Improved Direct Instantaneous Torque Control Based on Adaptive Terminal Sliding Mode for a Segmented-Rotor SRM. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 10569-10579	8.9	30
125	Nonlinear Model Analysis and Switching Model of ACDC Three-Degree-of-Freedom Hybrid Magnetic Bearing. *IEEE/ASME Transactions on Mechatronics*, **2016**, 21, 1102-1115	5.5	29
124	Nonlinear flux linkage modeling of a bearingless permanent magnet synchronous motor based on AW-LSSVM regression algorithm. *International Journal of Applied Electromagnetics and Mechanics*, **2016**, 51, 151-159	0.4	29

123	A Composite Sliding Mode Control for SPMSM Drives Based on a New Hybrid Reaching Law With Disturbance Compensation. *IEEE Transactions on Transportation Electrification*, **2021**, 7, 1427-1436	7.6	28
122	Suspension Force Modeling for a Bearingless Permanent Magnet Synchronous Motor Using Maxwell Stress Tensor Method. *IEEE Transactions on Applied Superconductivity*, **2016**, 26, 1-5	1.8	26
121	An Improved Deadbeat Predictive Stator Flux Control with Reduced-Order Disturbance Observer for In-Wheel PMSMs. *IEEE/ASME Transactions on Mechatronics*, **2021**, 1-1	5.5	26
120	Disturbance rejection based on iterative learning control with extended state observer for a four-degree-of-freedom hybrid magnetic bearing system. *Mechanical Systems and Signal Processing*, **2021**, 153, 107465	7.8	25
119	Speed Sensorless Model Predictive Current Control Based on Finite Position Set for PMSHM Drives. *IEEE Transactions on Transportation Electrification*, **2021**, 7, 2743-2752	7.6	25
118	Nonsingular Fast Terminal Sliding Mode Control for a Bearingless Induction Motor. *IEEE Access*, **2017**, 5, 16656-16664	3.5	23
117	Study on Active Disturbance Rejection Control of a Bearingless Induction Motor Based on an Improved Particle Swarm Optimization Genetic Algorithm. *IEEE Transactions on Transportation Electrification*, **2021**, 7, 694-705	7.6	22
116	Analysis and Optimization of Radial Force of Permanent-Magnet Synchronous Hub Motors. *IEEE Transactions on Magnetics*, **2020**, 56, 1-4	2	21
115	Rotor radial disturbance control for a bearingless induction motor based on improved active disturbance rejection control. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2019**, 38, 138-152	0.7	21
114	A Nonlinear Decoupling Control Approach Using RBFNNI-Based Robust Pole Placement for a Permanent Magnet In-Wheel Motor. *IEEE Access*, **2018**, 6, 1844-1854	3.5	19
113	Torque Modeling of a Segmented-Rotor SRM Using Maximum-Correntropy-Criterion-Based LSSVR for Torque Calculation of EVs. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2021**, 9, 2674-2684	5.6	19
112	Three-Vector-Based Model Predictive Torque Control for a Permanent Magnet Synchronous Motor of EVs. *IEEE Transactions on Transportation Electrification*, **2021**, 7, 1454-1465	7.6	19
111	Design and analysis of a novel wound rotor for a bearingless induction motor. *International Journal of Electronics*, **2019**, 106, 1829-1844	1.2	18
110	Improved Model Predictive Torque Control for PMSM Drives Based on Duty Cycle Optimization. *IEEE Transactions on Magnetics*, **2021**, 57, 1-5	2	18
109	A Nonlinear Flux Linkage Model for Bearingless Induction Motor Based on GWO-LSSVM. *IEEE Access* , **2019**, 7, 36558-36567	3.5	17
108	Comprehensive Sensitivity and Cross-Factor Variance Analysis-Based Multi-Objective Design Optimization of a 3-DOF Hybrid Magnetic Bearing. *IEEE Transactions on Magnetics*, **2021**, 57, 1-4	2	17
107	Neuron PID Control for a BPMSM Based on RBF Neural Network On-Line Identification. *Asian Journal of Control*, **2013**, 15, 1772-1784	1.7	16
106	Sliding Mode Direct Torque Control of SPMSMs Based on a Hybrid Wolf Optimization Algorithm. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1	8.9	16

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104	Multimode Optimization of Switched Reluctance Machines in Hybrid Electric Vehicles. *IEEE Transactions on Energy Conversion*, **2021**, 36, 2217-2226	5.4	14
103	Overview of Bearingless Induction Motors. *Mathematical Problems in Engineering*, **2014**, 2014, 1-10	1.1	13
102	A high-performance control scheme for reluctance type bearingless motors. *International Journal of Applied Electromagnetics and Mechanics*, **2017**, 53, 537-549	0.4	12
101	A Novel Strategy of Control Performance Improvement for Six-Phase Permanent Magnet Synchronous Hub Motor Drives of EVs Under New European Driving Cycle. *IEEE Transactions on Vehicular Technology*, **2021**, 70, 5628-5637	6.8	12
100	Sliding Mode Variable Structure Control of a Bearingless Induction Motor Based on a Novel Reaching Law. *Energies*, **2016**, 9, 452	3.1	11
99	Optimal Design and Performance Analysis for Interior Composite-Rotor Bearingless Permanent Magnet Synchronous Motors. *IEEE Access*, **2019**, 7, 7456-7465	3.5	11
98	Fault-Tolerant Operation of a Six-Phase Permanent Magnet Synchronous Hub Motor Based on Model Predictive Current Control with Virtual Voltage Vectors. *IEEE Transactions on Energy Conversion*, **2021**, 1-1	5.4	11
97	Robust Design Optimization of Switched Reluctance Motor Drive Systems Based on System-Level Sequential Taguchi Method. *IEEE Transactions on Energy Conversion*, **2021**, 1-1	5.4	11
96	Multiobjective and Multiphysics Design Optimization of a Switched Reluctance Motor for Electric Vehicle Applications. *IEEE Transactions on Energy Conversion*, **2021**, 1-1	5.4	11
95	Machine Learning for Design Optimization of Electromagnetic Devices: Recent Developments and Future Directions. *Applied Sciences (Switzerland)*, **2021**, 11, 1627	2.6	11
94	Modeling and Decoupling Control for Rotor System in Magnetic Levitation Wind Turbine. *IEEE Access*, **2017**, 5, 15516-15528	3.5	10
93	High-performance control for a permanent-magnet linear synchronous generator using state feedback control scheme plus grey wolf optimisation. *IET Electric Power Applications*, **2020**, 14, 771-780	1.8	10
92	Decoupling control of a 5-degree-of-freedom bearingless induction motor based on least squares support vector machine inverse. *Advances in Mechanical Engineering*, **2016**, 8, 168781401667212	1.2	10
91	Modeling and control of a bearingless permanent magnet synchronous motor. *International Journal of Applied Electromagnetics and Mechanics*, **2017**, 53, 151-165	0.4	9
90	Direct Torque and Suspension Force Control for Bearingless Induction Motors Based on Active Disturbance Rejection Control Scheme. *IEEE Access*, **2019**, 7, 86989-87001	3.5	9
89	Analysis of inductance characteristics for a bearingless permanent magnet synchronous motor. *Electrical Engineering*, **2013**, 95, 277-286	1.5	9
88	Rotor Mass Eccentricity Vibration Compensation Control in Bearingless Induction Motor. *Advances in Mechanical Engineering*, **2015**, 7, 168428	1.2	9

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86	Multiple-Iteration Search Sensorless Control for Linear Motor in Vehicle Regenerative Suspension. *IEEE Transactions on Transportation Electrification*, **2021**, 7, 1628-1637	7.6	9
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84	Thermal modeling and analysis of bearingless permanent magnet synchronous motors. *International Journal of Applied Electromagnetics and Mechanics*, **2017**, 56, 115-130	0.4	8
83	Compensated Deadbeat Predictive Current Control Considering Disturbance and VSI Nonlinearity for In-Wheel PMSMs. *IEEE/ASME Transactions on Mechatronics*, **2022**, 1-12	5.5	8
82	Design optimisation of an outer-rotor permanent magnet synchronous hub motor for a low-speed campus patrol EV. *IET Electric Power Applications*, **2020**, 14, 2111-2118	1.8	8
81	Optimal Design of Terminal Sliding Mode Controller for Direct Torque Control of SRMs. *IEEE Transactions on Transportation Electrification*, **2021**, 1-1	7.6	8
80	Speed Sensorless Control for IPMSMs Using a Modified MRAS with Grey Wolf Optimization Algorithm. *IEEE Transactions on Transportation Electrification*, **2021**, 1-1	7.6	8
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78	Direct Torque Control With Variable Flux for an SRM Based on Hybrid Optimization Algorithm. *IEEE Transactions on Power Electronics*, **2022**, 1-1	7.2	7
77	Multiobjective Optimization of a Five-Phase Bearingless Permanent Magnet Motor Considering Winding Area. *IEEE/ASME Transactions on Mechatronics*, **2021**, 1-10	5.5	7
76	Fractional-order sliding mode control for a bearingless induction motor based on improved load torque observer. *Journal of the Franklin Institute*, **2021**, 358, 3701-3725	4	7
75	Sliding Mode Control for Bearingless Induction Motor Based on a Novel Load Torque Observer. *Journal of Sensors*, **2016**, 2016, 1-10	2	7
74	Analysis of torque ripple and fault-tolerant capability for a 16/10 segmented switched reluctance motor in HEV applications. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2019**, 38, 1725-1737	0.7	7
73	Rotor Position Estimation Approaches for Sensorless Control of Permanent Magnet Traction Motor in Electric Vehicles: A Review. *World Electric Vehicle Journal*, **2021**, 12, 9	2.5	7
72	An Enhanced Linear ADRC Strategy for a Bearingless Induction Motor. *IEEE Transactions on Transportation Electrification*, **2021**, 1-1	7.6	7
71	Radial position control of a magnetically suspended rotor system in a direct-driven spindle using inverse system scheme. *Transactions of the Institute of Measurement and Control*, **2016**, 38, 1073-1086	1.8	6
70	A novel four degree-of-freedoms bearingless permanent magnet machine using modified cross feedback control scheme for flywheel energy storage systems. *International Journal of Applied Electromagnetics and Mechanics*, **2019**, 60, 379-392	0.4	6

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68	Rotor Vibration Control of a Bearingless Induction Motor Based on Unbalanced Force Feed-Forward Compensation and Current Compensation. *IEEE Access*, **2020**, 8, 12988-12998	3.5	6
67	Dynamic Ride Height Adjusting Controller of ECAS Vehicle with Random Road Disturbances. *Mathematical Problems in Engineering*, **2013**, 2013, 1-9	1.1	6
66	Analysis and optimisation of a bearingless induction motor's suspension force and unbalanced magnetic pulling force mathematical model. *IET Electric Power Applications*, **2020**, 14, 1247-1255	1.8	6
65	Performance optimization design and analysis of bearingless induction motor with different magnetic slot wedges. *Results in Physics*, **2019**, 12, 349-356	3.7	6
64	Robust Multi-Objective Optimization of A 3-Pole Active Magnetic Bearing Based on Combined Curves with Climbing Algorithm. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1	8.9	6
63	An Improved Dynamic Model for Bearingless Induction Motor Considering Rotor Eccentricity and Load Change. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1	8.9	6
62	Investigation of Static Characteristics in Six-Phase Switched Reluctance Motors under Different Winding Connections. *IEEE Access*, **2019**, 7, 71174-71184	3.5	5
61	Displacement sensorless control for bearingless induction motor drives based on the MRAS method. *International Journal of Applied Electromagnetics and Mechanics*, **2020**, 62, 787-805	0.4	5
60	Speed-sensorless control system of a bearingless induction motor based on iterative central difference Kalman filter. *International Journal of Electronics*, **2020**, 107, 1524-1542	1.2	5
59	Accurate torque modeling with PSO-based recursive robust LSSVR for a segmented-rotor switched reluctance motor. *CES Transactions on Electrical Machines and Systems*, **2020**, 4, 96-104	2.3	5
58	Artificial neural networks inverse control of 5 degrees of freedom bearingless induction motor. *International Journal of Modelling, Identification and Control*, **2012**, 15, 156	0.6	5
57	Model Predictive Thrust Force Control for Linear Motor Actuator used in Active Suspension. *IEEE Transactions on Energy Conversion*, **2021**, 1-1	5.4	5
56	A Novel Energy Management Strategy for Plug-in Hybrid Electric Buses Based on Model Predictive Control and Estimation of Distribution Algorithm. *IEEE/ASME Transactions on Mechatronics*, **2022**, 1-12	5.5	5
55	Linearizing control of a permanent magnet linear synchronous motor with inverse system scheme plus an internal model controller. *International Journal of Applied Electromagnetics and Mechanics*, **2017**, 55, 523-534	0.4	4
54	Analysis of rotor slot width influence on a bearingless induction motor. *Computers and Electrical Engineering*, **2020**, 81, 106534	4.3	4
53	Compensation control of rotor mass eccentric vibration for bearingless induction motors. *Journal of Power Electronics*, **2021**, 21, 792-803	0.9	4
52	Speed sensorless control of a bearingless induction motor based on sliding mode observer and phase-locked loop. *ISA Transactions*, **2021**,	5.5	4

51	A Bearingless Induction Motor Direct Torque Control and Suspension Force Control Based on Sliding Mode Variable Structure. *Mathematical Problems in Engineering*, **2017**, 2017, 1-11	1.1	3
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49	A High-Performance Control Method of ConstantV/f-Controlled Induction Motor Drives for Electric Vehicles. *Mathematical Problems in Engineering*, **2014**, 2014, 1-10	1.1	3
48	Sensorless Control with Fault-Tolerant Ability for Switched Reluctance Motors. *IEEE Transactions on Energy Conversion*, **2021**, 1-1	5.4	3
47	Development of a digital control system for a belt-driven starter generator segmented switched reluctance motor for hybrid electric vehicles. *Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering*, **2020**, 234, 975-984	1	3
46	Reactive-power-based MRAC for rotor resistance and speed estimation in bearingless induction motor drives. *International Journal of Applied Electromagnetics and Mechanics*, **2020**, 62, 127-143	0.4	3
45	Optimal control strategy of state feedback control for surface-mounted PMSM drives based on auto-tuning of seeker optimization algorithm. *International Journal of Applied Electromagnetics and Mechanics*, **2021**, 66, 705-725	0.4	3
44	Design optimization and analysis of a segmented-rotor switched reluctance machine for BSG application in HEVs. *International Journal of Applied Electromagnetics and Mechanics*, **2020**, 63, 529-550	0.4	2
43	Vector control for a bearingless induction motor based on nonsingular terminal sliding mode structure **2017**,		2
42	Direct suspension force control of bearingless permanent magnet synchronous motor **2012**,		2
41	Joint Estimation of State-of-Health and State-of-Charge for Lithium-Ion Battery Based on Electrochemical Model Optimized by Neural Network. *IEEE Journal of Emerging and Selected Topics in Industrial Electronics*, **2022**, 1-1	2.6	2
40	Finite Position Control of Interior Permanent Magnet Synchronous Motors at Low-speed. *IEEE Transactions on Power Electronics*, **2022**, 1-1	7.2	2
39	. *IEEE Access*, **2021**, 9, 153811-153823	3.5	2
38	Design and Analysis of a Three-Speed Wound Bearingless Induction Motor. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1	8.9	2
37	Position Sensorless Control of Switched Reluctance Motor Drives Based on a New Sliding Mode Observer Using Fourier Flux Linkage Model. *IEEE Transactions on Energy Conversion*, **2021**, 1-1	5.4	2
36	Speed sensorless control of a bearingless induction motor with combined neural network and fractional sliding mode. *Mechatronics*, **2022**, 82, 102721	3	2
35	Three-degree-of-freedom positioning control of magnetically levitated permanent magnet planar motor using active disturbance rejection control scheme. *Advances in Mechanical Engineering*, **2017**, 9, 168781401770008	1.2	2
34	A decoupling control of composite cage rotor bearingless induction motor based on SA-PSO support vector machine inverse. *International Transactions on Electrical Energy Systems*, **2021**, 31, e12988	2.2	2

33	Torque Ripple Reduction for a 12/8 Switched Reluctance Motor Based on a Novel Sliding Mode Control Strategy. *IEEE Transactions on Transportation Electrification*, **2022**, 1-1	7.6	2
32	Model predictive flux control of six-phase permanent magnet synchronous motor with novel virtual voltage vectors. *Electrical Engineering*,1	1.5	2
31	Comparison of torque characteristics for a novel segmented and a conventional switched reluctance motors **2017**,		1
30	Speed sensorless of a bearingless induction motor based on super-twisting-model reference adaptive system **2017**,		1
29	Parameter matching and structure optimal design of a brushless DC motor for a battery electric vehicle **2017**,		1
28	Direct control of rotor eccentric displacement for bearingless Permanent Magnet-type slice motor **2012**,		1
27	Sliding mode variable structure control for radial suspension forces of bearingless permanent magnet synchronous motor based on inverse system method **2009**,		1
26	Speed Sensorless Control Based on Initial Rotor Position Detection for EESM. *Mathematical Problems in Engineering*, **2022**, 2022, 1-15	1.1	1
25	Application-Oriented System Level Optimization Method for Switched Reluctance Motor Drive Systems **2020**,		1
24	Robust-Oriented Optimization of Switched Reluctance Motors Considering Manufacturing Fluctuation. *IEEE Transactions on Transportation Electrification*, **2021**, 1-1	7.6	1
23	Improved Finite-Control-Set Model Predictive Control with Virtual Vectors for PMSHM Drives. *IEEE Transactions on Energy Conversion*, **2021**, 1-1	5.4	1
22	Analysis of Midpoint Current Characteristics for Novel Six-Phase N+2 Power Converter in Different Working Condition. *IEEE Access*, **2020**, 8, 105104-105117	3.5	1
21	Speed sensorless control of a bearingless induction motor based on fuzzy PI fractional MRAS scheme. *International Journal of Green Energy*,1-10	3	1
20	SUSPENSION FORCE MODELING AND ELECTROMAGNETIC CHARACTERISTICS ANALYSIS OF AN INTERIOR BEARINGLESS PERMANENT MAGNET SYNCHRONOUS MOTOR. *Progress in Electromagnetics Research B*, **2016**, 69, 31-45	0.7	1
19	An effective method of verifying poles polarities in switched reluctance motors. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2019**, 38, 927-938	0.7	1
18	A State Feedback Controller for PMSMs Based on Penalty Term Augmented Seeker Optimization Algorithm **2019**,		1
17	Field-Oriented Control of Energy-Regenerative Electromagnetic Slip Coupling. *IEEE Access*, **2018**, 6, 52169-52178	3.5	1
16	Optimization of a Five-Phase E-core Bearingless Flux-Switching Permanent Magnet Motor for Flywheel Batteries **2018**,		1

15	Air-Gap Flux Oriented Vector Control Based on Reduced-Order Flux Observer for EESM. *Energies*, **2021**, 14, 5874	3.1	1
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13	High Fault-Tolerance Evaluation on Position Signal for Switched Reluctance Motor Drives. *IEEE Transactions on Energy Conversion*, **2022**, 1-1	5.4	0
12	Multi-objective Design Optimization of a Novel Switched Reluctance Motor with Unequal Alternating Stator Yoke Segments. *IEEE Transactions on Transportation Electrification*, **2022**, 1-1	7.6	0
11	Correction of the suspension force expression and the control compensation study in a bearingless induction motor. *Electrical Engineering*,1	1.5	
10	Speed Sensorless Control of Bearingless Induction Motors Based on Adaptive Flux Observer. *Journal of Electrical Engineering and Technology*,1	1.4	
9	Speed sensorless control of a BL-IM based on an adaptive nonsingular terminal sliding mode observer. *International Journal of Electronics*,1-19	1.2	
8	Rotor vibration unbalance compensation control of a bearingless induction motor. *International Transactions on Electrical Energy Systems*, **2021**, 31, e12953	2.2	
7	Decoupling control of bearingless PMSM with LSSVM inverse system and IMC. *International Journal of Applied Electromagnetics and Mechanics*, **2021**, 65, 715-734	0.4	
6	MPTC of a six-phase PMSHM with auxiliary voltage vectors. *International Journal of Applied Electromagnetics and Mechanics*, **2021**, 65, 763-779	0.4	
5	Fault-tolerant model predictive control of six-phase permanent magnet synchronous hub motors. *International Journal of Applied Electromagnetics and Mechanics*, **2021**, 1-24	0.4	
4	An Overview of Position Sensorless Techniques for Switched Reluctance Machine Systems. *Applied Sciences (Switzerland)*, **2022**, 12, 3616	2.6	
3	Research on Output Voltage Stability of Non-Contact Excitation Motor. *Applied Sciences (Switzerland)*, **2022**, 12, 3666	2.6	
2	Deep multi-layer perceptron-based evolutionary algorithm for dynamic multiobjective optimization. *Complex & Intelligent Systems*,1	7.1	
1	A Fuzzy-ELADRC Method for a Bearingless Induction Motor. *IEEE Transactions on Power Electronics*, **2022**, 1-1	7.2	