

Chang-Liang Xia

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.

149 papers	4,061 citations	35 h-index	58 g-index
173 ext. papers	5,273 ext. citations	5.1 avg, IF	5.94 L-index

#	Paper	IF	Citations
149	Thermal analysis of the cooling system with the circulation between rotor holes of enclosed PMSMs based on modified models. <i>Applied Thermal Engineering</i> , 2022 , 206, 118054	5.8	1
148	Model Predictive Current Control with Variable Gain Adaptive Observer Based on Current Augmenter Prediction Model for IPMSM Drives. <i>IEEE Transactions on Vehicular Technology</i> , 2022 , 1-1	6.8	
147	Robust Design and Analysis of Asymmetric-Excited Flux Reversal PM Linear Machine for Long-Stroke Direct Drive Propulsion. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-4	2	4
146	. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 2976-2987	8.9	15
145	Accurate Analytical Method for Magnetic Field Calculation of Interior PM Motors. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 36, 325-337	5.4	5
144	An Accurate Virtual Signal Injection Control for IPMSM With Improved Torque Output and Widen Speed Region. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 1941-1953	7.2	8
143	An Improved Multimode Synchronized Space Vector Modulation Strategy for High-Power Medium-Voltage Three-Level Inverter. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 4686-4696	7.2	2
142	Hybrid Discontinuous Space Vector PWM Strategy for Three-Level Inverters Under Two-Phase Loads Condition. <i>IEEE Transactions on Power Electronics</i> , 2021 , 1-1	7.2	1
141	The Torque Ripple Reduction in PMAREL Machine Using Time-Space Harmonics Analysis of Air-Gap Flux Density. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	1
140	Analysis and Evaluation of Hybrid-Excited Doubly Salient Permanent Magnet Linear Machine With DC-Biased Armature Current. <i>IEEE Transactions on Industry Applications</i> , 2021 , 57, 3666-3677	4.3	3
139	A Novel SVPWM Scheme for Field-Oriented Vector-Controlled PMSM Drive System Fed by Cascaded H-Bridge Inverter. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 8988-9000	7.2	10
138	Minimization of Additional High-Frequency Torque Ripple for Square-Wave Voltage Injection IPMSM Sensorless Drives. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 13345-13355	7.2	10
137	MPTC of NP-clamped three-level inverter-fed permanent-magnet synchronous motor system for NP potential imbalance suppression. <i>IET Electric Power Applications</i> , 2020 , 14, 658-667	1.8	2
136	Model predictive current control for multilevel CHB-PMSM system with lower calculation. <i>IET Electric Power Applications</i> , 2020 , 14, 1089-1096	1.8	1
135	Predictive control with optimal vector sequence for permanent magnet synchronous motors. <i>Journal of Power Electronics</i> , 2020 , 20, 553-565	0.9	1
134	Split ratio-based performance analysis method of PM-assisted reluctance machine. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2020 , 62, 737-761	0.4	
133	A Novel Variable DC-Link Voltage Control Method for PMSM Driven by a Quasi-Z-Source Inverter. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 3878-3890	7.2	14

132	Self-circulation cooling structure design of permanent magnet machines for electric vehicle. <i>Applied Thermal Engineering</i> , 2020 , 165, 114593	5.8	17
131	Linear Quadratic Regulator Control for PMSM Drive Systems Using Nonlinear Disturbance Observer. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 5093-5101	7.2	9
130	Braking Torque Control Strategy for Brushless DC Motor With a Noninductive Hybrid Energy Storage Topology. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 8417-8428	7.2	7
129	Supercapacitor/battery hybrid energy storage unit for brushless DC motor operation. <i>IET Electric Power Applications</i> , 2020 , 14, 597-604	1.8	2
128	Finite set model predictive control method for quasi-Z source inverter-permanent magnet synchronous motor drive system. <i>IET Electric Power Applications</i> , 2019 , 13, 302-309	1.8	9
127	Simplified predictive torque control for permanent magnet synchronous motor with discrete duty cycle control. <i>IET Electric Power Applications</i> , 2019 , 13, 294-301	1.8	8
126	VSP predictive torque control of PMSM. <i>IET Electric Power Applications</i> , 2019 , 13, 463-471	1.8	3
125	A Novel Current Predictive Control Based on Fuzzy Algorithm for PMSM. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2019 , 7, 990-1001	5.6	25
124	A Modified Double Vectors Model Predictive Torque Control of Permanent Magnet Synchronous Motor. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 11419-11428	7.2	38
123	A Position Sensorless Control Strategy for the BLDCM Based on a Flux-Linkage Function. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 2570-2579	8.9	16
122	DC/DC Boost Converter With a Wide Input Range and High Voltage Gain for Fuel Cell Vehicles. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 4100-4111	7.2	53
121	A Commutation Torque Ripple Suppression Strategy for Brushless DC Motor Based on Diode-Assisted BuckBoost Inverter. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 5594-5605	7.2	10
120	Inductance Calculation of Interior Permanent Magnet Machines Considering Asymmetrical Saturation of the Bridge. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-11	2	8
119	MTPA Control of Sensorless IPMSM Based on High Frequency Square-Wave Signal Injection 2019 ,		2
118	Sensorless-MTPA Control of Permanent Magnet Synchronous Motor Based on an Adaptive Sliding Mode Observer. <i>Energies</i> , 2019 , 12, 3773	3.1	9
117	Resolver-To-Digital Conversion Based on Acceleration-Compensated Angle Tracking Observer. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2019 , 68, 3494-3502	5.2	14
116	Single-Current-Sensor Control for PMSM Driven by Quasi-Z-Source Inverter. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 7013-7024	7.2	18
115	Generalized Predictive Contour Control of the Biaxial Motion System. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 8488-8497	8.9	15

114	Steady-State Performance Improvement for LQR-Based PMSM Drives. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 10622-10632	7.2	22
113	A Smooth Torque Control Strategy for Brushless DC Motor in Braking Operation. <i>IEEE Transactions on Energy Conversion</i> , 2018 , 33, 1443-1452	5.4	10
112	Harmonic Spectrum of Output Voltage for Space Vector-Modulated Matrix Converter Based on Triple Fourier Series. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 10646-10653	7.2	7
111	Improved equivalent magnetic network modeling for analyzing working points of PMs in interior permanent magnet machine. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 454, 39-50	2.8	9
110	A Method of Resolver-to-Digital Conversion Based on Square Wave Excitation. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 7211-7219	8.9	18
109	A Multimode Space Vector Overmodulation Strategy for Ultrasparse Matrix Converter With Improved Fundamental Voltage Transfer Ratio. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 6782-6793	7.2	13
108	Direct self-control strategy for brushless DC motor with reduced torque ripple. <i>IET Electric Power Applications</i> , 2018 , 12, 398-404	1.8	8
107	Disturbances Attenuation of Permanent Magnet Synchronous Motor Drives Using Cascaded Predictive-Integral-Resonant Controllers. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 1514-1527	7.2	60
106	Commutation Torque Ripple Reduction of Brushless DC Motor in Braking Operation. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 1463-1475	7.2	17
105	Commutation Torque Ripple Suppression Strategy for Brushless DC Motors With a Novel Noninductive Boost Front End. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 4274-4284	7.2	18
104	Design and Analysis for Torque Ripple Reduction in Synchronous Reluctance Machine. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-5	2	4
103	Harmonic Spectrum of Output Voltage for Space Vector Pulse Width Modulated Ultra Sparse Matrix Converter. <i>Energies</i> , 2018 , 11, 390	3.1	4
102	Precise Contour Control of Biaxial Motion System Based on MPC. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2018 , 6, 1711-1721	5.6	12
101	Predictive Torque Control of Permanent Magnet Synchronous Motors Using Flux Vector. <i>IEEE Transactions on Industry Applications</i> , 2018 , 54, 4437-4446	4.3	27
100	No-Tension Sensor Closed-Loop Control Method with Adaptive PI Parameters for Two-Motor Winding System. <i>Mathematical Problems in Engineering</i> , 2018 , 2018, 1-14	1.1	2
99	A Method for the Suppression of Fluctuations in the Neutral-Point Potential of a Three-Level NPC Inverter With a Capacitor-Voltage Loop. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 825-836	7.2	34
98	A Torque Control Strategy for Torque Ripple Reduction of Brushless DC Motor With Nonideal Back Electromotive Force. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 4423-4433	8.9	29
97	Series IGBT Chopping Strategy to Reduce DC-Link Capacitance for Brushless DC Motor Drive System. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2017 , 5, 1192-1204	5.6	8

96	Torque Ripple Minimization of Predictive Torque Control for PMSM With Extended Control Set. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 6930-6939	8.9	93
95	A hybrid analytical model for open-circuit field calculation of multilayer interior permanent magnet machines. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 435, 136-145	2.8	21
94	A Current Control Scheme of Brushless DC Motors Driven by Four-Switch Three-Phase Inverters. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2017 , 5, 547-558	5.6	16
93	Online Multiparameter Identification of Surface-Mounted PMSM Considering Inverter Disturbance Voltage. <i>IEEE Transactions on Energy Conversion</i> , 2017 , 32, 202-212	5.4	42
92	Computationally efficient multi-step direct predictive torque control for surface-mounted permanent magnet synchronous motor. <i>IET Electric Power Applications</i> , 2017 , 11, 805-814	1.8	20
91	Wide Input-Voltage Range Boost Three-Level DC/DC Converter With Quasi-Z Source for Fuel Cell Vehicles. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 6728-6738	7.2	51
90	Space-Vector Overmodulation Strategy for Ultrasparse Matrix Converter Based on the Maximum Output Voltage Vector. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 5388-5397	7.2	16
89	Discontinuous Space Vector PWM Strategy of Neutral-Point-Clamped Three-Level Inverters for Output Current Ripple Reduction. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 5109-5121	7.2	54
88	Optimal space vector pulse width modulation strategy of neutral point clamped three-level inverter for output current ripple reduction. <i>IET Power Electronics</i> , 2017 , 10, 1638-1646	2.2	4
87	Torque control of permanent magnet synchronous motor using flux vector 2017 ,		1
86	Novel Carrier-Based PWM Strategy With Zero-Sequence Voltage Injected for Three-Level NPC Inverter. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2016 , 4, 1442-1451	5.6	30
85	Hybrid Control Set-Model Predictive Control for Field-Oriented Control of VSI-PMSM. <i>IEEE Transactions on Energy Conversion</i> , 2016 , 31, 1622-1633	5.4	41
84	Improved relative coupling control structure for multi-motor speed synchronous driving system. <i>IET Electric Power Applications</i> , 2016 , 10, 451-457	1.8	33
83	Analytical Field Calculation and Analysis of Surface Inset Permanent Magnet Machines With High Saliency Ratio. <i>IEEE Transactions on Magnetics</i> , 2016 , 52, 1-12	2	19
82	Robust adaptive cross-coupling position control of biaxial motion system. <i>Science China Technological Sciences</i> , 2016 , 59, 680-688	3.5	19
81	Flying-Capacitor-Based Hybrid LLC Converters With Input Voltage Autobalance Ability for High Voltage Applications. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 1908-1920	7.2	23
80	Harmonic suppression modulation strategy for ultra-sparse matrix converter. <i>IET Power Electronics</i> , 2016 , 9, 589-599	2.2	15
79	Predictive torque control for voltage source inverter-permanent magnet synchronous motor based on equal torque effect. <i>IET Electric Power Applications</i> , 2016 , 10, 208-216	1.8	16

78	Direct Torque Control for VSI-PMSM Using Vector Evaluation Factor Table. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 4571-4583	8.9	45
77	Synchronized Space-Vector PWM for Three-Level VSI With Lower Harmonic Distortion and Switching Frequency. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 6428-6441	7.2	44
76	Two-degree-of-freedom proportional integral speed control of electrical drives with Kalman-filter-based speed estimation. <i>IET Electric Power Applications</i> , 2016 , 10, 18-24	1.8	19
75	. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 5774-5785	7.2	31
74	Research on Linear Output Voltage Transfer Ratio for Ultrasparse Matrix Converter. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 1811-1815	7.2	6
73	Commutation Torque Ripple Reduction Strategy of Z-Source Inverter Fed Brushless DC Motor. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 7677-7690	7.2	48
72	Smooth Speed Control for Low-Speed High-Torque Permanent-Magnet Synchronous Motor Using Proportional-Integral-Resonant Controller. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 2123-2134	8.9	126
71	Self-regulating and self-evolving particle swarm optimizer. <i>Engineering Optimization</i> , 2015 , 47, 129-147	2	2
70	Direct torque control of matrix converter-fed permanent magnet synchronous motor drives based on master and slave vectors. <i>IET Power Electronics</i> , 2015 , 8, 288-296	2.2	27
69	Speed Measurement Error Suppression for PMSM Control System Using Self-Adaption Kalman Observer. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 2753-2763	8.9	54
68	Optimal Designing of Permanent Magnet Cavity to Reduce Iron Loss of Interior Permanent Magnet Machine. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-9	2	21
67	Analytical Modeling and Analysis of Surface Mounted Permanent Magnet Machines With Skewed Slots. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-8	2	8
66	Z-Source Inverter-Based Approach to the Zero-Crossing Point Detection of Back EMF for Sensorless Brushless DC Motor. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 1488-1498	7.2	36
65	Theoretical Evaluation of Stability Improvement Brought by Resonant Current Loop for Paralleled LLC Converters. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 4170-4180	8.9	26
64	Switching-Gain Adaptation Current Control for Brushless DC Motors. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 1-1	8.9	20
63	Decoupling-Controlled Triport Compositd DC/DC Converter for Multiple Energy Interface. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 4504-4513	8.9	48
62	Topology Review and Derivation Methodology of Single-Phase Transformerless Photovoltaic Inverters for Leakage Current Suppression. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 4537-4551	8.9	329
61	Predictive Direct Power Control for Three-Phase Grid-Connected Converters Without Sector Information and Voltage Vector Selection. <i>IEEE Transactions on Power Electronics</i> , 2014 , 29, 5518-5531	7.2	70

60	A Simplified Finite-Control-Set Model-Predictive Control for Power Converters. <i>IEEE Transactions on Industrial Informatics</i> , 2014 , 10, 991-1002	11.9	205
59	Suppression of common mode voltage for matrix converter based on improved double line voltage synthesis strategy. <i>IET Power Electronics</i> , 2014 , 7, 1384-1395	2.2	25
58	A Novel Direct Torque and Flux Control Method of Matrix Converter-Fed PMSM Drives. <i>IEEE Transactions on Power Electronics</i> , 2014 , 29, 5417-5430	7.2	43
57	Torque Ripple Reduction in Brushless DC Drives Based on Reference Current Optimization Using Integral Variable Structure Control. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 738-752	8.9	69
56	Hybrid space vector PWM strategy for three-level NPC inverters with optimal extension mode 2014 , ,		3
55	Torque ripple minimization of PMSM using PI type iterative learning control 2014 ,		9
54	Modeling and Analyzing of Magnetic Field of Segmented Halbach Array Permanent Magnet Machine Considering Gap Between Segments. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-9	2	20
53	Boost Three-Effective-Vector Current Control Scheme for a Brushless DC Motor With Novel Five-Switch Three-Phase Topology. <i>IEEE Transactions on Power Electronics</i> , 2014 , 29, 6581-6592	7.2	8
52	Improved Model Predictive Control of Three-level Voltage Source Converter. <i>Electric Power Components and Systems</i> , 2014 , 42, 1029-1038	1	8
51	Modeling and Analyzing of Surface-Mounted Permanent-Magnet Synchronous Machines With Optimized Magnetic Pole Shape. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-4	2	22
50	Robust model predictive current control of grid-connected converter without alternating current voltage sensors. <i>IET Power Electronics</i> , 2014 , 7, 2934-2944	2.2	24
49	A Novel Direct Torque Control of Matrix Converter-Fed PMSM Drives Using Duty Cycle Control for Torque Ripple Reduction. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 2700-2713	8.9	103
48	Adjustable Proportional Hybrid SVPWM Strategy for Neutral-Point-Clamped Three-Level Inverters. <i>IEEE Transactions on Industrial Electronics</i> , 2013 , 60, 4234-4242	8.9	73
47	A novel orientation measurement using optical sensor for spherical motor. <i>Science China Technological Sciences</i> , 2013 , 56, 1330-1339	3.5	7
46	Design and Analysis of a Variable Arc Permanent Magnet Array for Spherical Motor. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 1470-1478	2	20
45	Cogging Torque Modeling and Analyzing for Surface-Mounted Permanent Magnet Machines With Auxiliary Slots. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 5112-5123	2	36
44	Improved double line voltage synthesis of matrix converter for input current enhancement under unbalanced power supply. <i>IET Power Electronics</i> , 2013 , 6, 798-808	2.2	15
43	Advanced Four-Pair Architecture With Input Current Balance Function for Power Over Ethernet (PoE) System. <i>IEEE Transactions on Power Electronics</i> , 2013 , 28, 2343-2355	7.2	10

42	Equivalent Switch Circuit Model and Proportional Resonant Control for Triple Line-Voltage Cascaded Voltage-Source Converter. <i>IEEE Transactions on Power Electronics</i> , 2013 , 28, 2389-2401	7.2	22
41	Chaotic Dynamics Characteristic Analysis for Matrix Converter. <i>IEEE Transactions on Industrial Electronics</i> , 2013 , 60, 78-87	8.9	23
40	New Sliding-Mode Observer for Position Sensorless Control of Permanent-Magnet Synchronous Motor. <i>IEEE Transactions on Industrial Electronics</i> , 2013 , 60, 710-719	8.9	289
39	Predictive Current Control of Three-Phase Grid-Connected Converters With Constant Switching Frequency for Wind Energy Systems. <i>IEEE Transactions on Industrial Electronics</i> , 2013 , 60, 2451-2464	8.9	75
38	A modified predictive control strategy of three-phase grid-connected converters with optimized action time sequence. <i>Science China Technological Sciences</i> , 2013 , 56, 1017-1028	3.5	6
37	An Improved Control Strategy of Triple Line-Voltage Cascaded Voltage Source Converter Based on Proportional Resonant Controller. <i>IEEE Transactions on Industrial Electronics</i> , 2013 , 60, 2894-2908	8.9	28
36	Implementation of Finite-State Model Predictive Control for Commutation Torque Ripple Minimization of Permanent-Magnet Brushless DC Motor. <i>IEEE Transactions on Industrial Electronics</i> , 2013 , 60, 896-905	8.9	70
35	Advanced Symmetrical Voltage Quadrupler Rectifiers for High Step-Up and High Output-Voltage Converters. <i>IEEE Transactions on Power Electronics</i> , 2013 , 28, 1622-1631	7.2	63
34	Three effective vectors-based current control scheme for four-switch three-phase trapezoidal brushless DC motor. <i>IET Electric Power Applications</i> , 2013 , 7, 566-574	1.8	14
33	Input/Output Feedback Linearization and Speed Control of a Surface Permanent-Magnet Synchronous Wind Generator With the Boost-Chopper Converter. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 59, 3489-3500	8.9	42
32	End-effect of the permanent-magnet spherical motor and its influence on back-EMF characteristics. <i>Science China Technological Sciences</i> , 2012 , 55, 206-212	3.5	4
31	Voltage Disturbance Rejection for Matrix Converter-Based PMSM Drive System Using Internal Model Control. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 59, 361-372	8.9	51
30	Direct power control for three-level PWM rectifier based on hysteresis strategy. <i>Science China Technological Sciences</i> , 2012 , 55, 3019-3028	3.5	3
29	Modeling, Analyzing, and Parameter Design of the Magnetic Field of a Segmented Halbach Cylinder. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 1890-1898	2	33
28	Improved Double Line Voltage Synthesis Strategies of Matrix Converter for Input/Output Quality Enhancement. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 1-1	8.9	6
27	Proportional-Resonant Control of Doubly-Fed Induction Generator Wind Turbines for Low-Voltage Ride-Through Enhancement. <i>Energies</i> , 2012 , 5, 4758-4778	3.1	16
26	Neutral-Point Potential Balancing of Three-Level Inverters in Direct-Driven Wind Energy Conversion System. <i>IEEE Transactions on Energy Conversion</i> , 2011 , 26, 18-29	5.4	88
25	Assessing the Growth and Future Prospect of Wind Power in China 2010 ,		8

24	A Neural-Network-Identifier and Fuzzy-Controller-Based Algorithm for Dynamic Decoupling Control of Permanent-Magnet Spherical Motor. <i>IEEE Transactions on Industrial Electronics</i> , 2010 , 57, 2868-2878	8.9	83
23	A New Approach of Minimizing Commutation Torque Ripple for Brushless DC Motor Based on DCDC Converter. <i>IEEE Transactions on Industrial Electronics</i> , 2010 , 57, 3483-3490	8.9	105
22	Research on Torque Calculation Method of Permanent-Magnet Spherical Motor Based on the Finite-Element Method. <i>IEEE Transactions on Magnetics</i> , 2009 , 45, 2015-2022	2	36
21	Field-Circuit Hybrid Method for Magnetic Actuator Using a Laminate Composite. <i>IEEE Transactions on Magnetics</i> , 2009 , 45, 5315-5318	2	
20	A Control Strategy for Four-Switch Three-Phase Brushless DC Motor Using Single Current Sensor. <i>IEEE Transactions on Industrial Electronics</i> , 2009 , 56, 2058-2066	8.9	56
19	3-D Magnetic Field and Torque Analysis of a Novel Halbach Array Permanent-Magnet Spherical Motor. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 2016-2020	2	64
18	Brushless DC Motors Control Based on Smith Predictor Modified by Fuzzy-PI Controller 2008 ,		2
17	A new algorithm for dynamic decoupling control of HPMSM using fuzzy controllers 2008 ,		1
16	A current control algorithm based on variable current threshold for four-switch three-phase BLDCM using intelligent controller 2008 ,		1
15	Control of Brushless DC Motor Using Fuzzy Set Based Immune Feedback PID Controller 2007 ,		4
14	Rotor Position Estimation for Switched Reluctance Motor Using Support Vector Machine 2007 ,		1
13	Torque characteristic investigation of a permanent magnet spherical motor 2007 ,		2
12	A dynamic decoupling control algorithm for Halbach array permanent magnet spherical motor based on computed torque method 2007 ,		2
11	Modeling of Switched Reluctance Motor Based on Pi-sigma Neural Network 2007 ,		5
10	Study on the position identification of a Halbach array permanent magnet spherical motor 2007 ,		2
9	Position servo control of brushless DC motor based on the second discrete filter 2007 ,		3
8	Sensorless Position Control using Adaptive Wavelet Neural Network for PM BLDCM 2007 ,		3
7	Speed Control of Brushless DC Motor Based on Single Neuron PID and Wavelet Neural Network 2007 ,		4

6	Spherical harmonic analysis of a novel Halbach array PM spherical motor 2007 ,	3
5	Sensorless Control of Brushless DC Motor Based on Fuzzy Logic 2006 ,	4
4	Analysis of Synchronous Generator Internal Faults Based on Fractal 2006 ,	3
3	Adaptive PWM Speed Control for Switched Reluctance Motors Based on RBF Neural Network 2006 ,	3
2	Variable structure control of BLDCM based on extended state observer	2
1	Speed control of brushless DC motor using genetic algorithm based fuzzy controller	7