

# Chang-Liang Xia

## List of Publications by Citations

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149  
papers

4,061  
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173  
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5,273  
ext. citations

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avg, IF

5.94  
L-index

#	Paper	IF	Citations
149	Topology Review and Derivation Methodology of Single-Phase Transformerless Photovoltaic Inverters for Leakage Current Suppression. <i>IEEE Transactions on Industrial Electronics</i> , <b>2015</b> , 62, 4537-4551	8.9	329
148	New Sliding-Mode Observer for Position Sensorless Control of Permanent-Magnet Synchronous Motor. <i>IEEE Transactions on Industrial Electronics</i> , <b>2013</b> , 60, 710-719	8.9	289
147	A Simplified Finite-Control-Set Model-Predictive Control for Power Converters. <i>IEEE Transactions on Industrial Informatics</i> , <b>2014</b> , 10, 991-1002	11.9	205
146	Smooth Speed Control for Low-Speed High-Torque Permanent-Magnet Synchronous Motor Using Proportional-Integral-Resonant Controller. <i>IEEE Transactions on Industrial Electronics</i> , <b>2015</b> , 62, 2123-2134	8.9	126
145	A New Approach of Minimizing Commutation Torque Ripple for Brushless DC Motor Based on DC/DC Converter. <i>IEEE Transactions on Industrial Electronics</i> , <b>2010</b> , 57, 3483-3490	8.9	105
144	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> , <b>2014</b> , 61, 2700-2713	8.9	103
143	Torque Ripple Minimization of Predictive Torque Control for PMSM With Extended Control Set. <i>IEEE Transactions on Industrial Electronics</i> , <b>2017</b> , 64, 6930-6939	8.9	93
142	Neutral-Point Potential Balancing of Three-Level Inverters in Direct-Driven Wind Energy Conversion System. <i>IEEE Transactions on Energy Conversion</i> , <b>2011</b> , 26, 18-29	5.4	88
141	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> , <b>2010</b> , 57, 2868-2878	8.9	83
140	Predictive Current Control of Three-Phase Grid-Connected Converters With Constant Switching Frequency for Wind Energy Systems. <i>IEEE Transactions on Industrial Electronics</i> , <b>2013</b> , 60, 2451-2464	8.9	75
139	Adjustable Proportional Hybrid SVPWM Strategy for Neutral-Point-Clamped Three-Level Inverters. <i>IEEE Transactions on Industrial Electronics</i> , <b>2013</b> , 60, 4234-4242	8.9	73
138	Predictive Direct Power Control for Three-Phase Grid-Connected Converters Without Sector Information and Voltage Vector Selection. <i>IEEE Transactions on Power Electronics</i> , <b>2014</b> , 29, 5518-5531	7.2	70
137	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> , <b>2013</b> , 60, 896-905	8.9	70
136	Torque Ripple Reduction in Brushless DC Drives Based on Reference Current Optimization Using Integral Variable Structure Control. <i>IEEE Transactions on Industrial Electronics</i> , <b>2014</b> , 61, 738-752	8.9	69
135	3-D Magnetic Field and Torque Analysis of a Novel Halbach Array Permanent-Magnet Spherical Motor. <i>IEEE Transactions on Magnetics</i> , <b>2008</b> , 44, 2016-2020	2	64
134	Advanced Symmetrical Voltage Quadrupler Rectifiers for High Step-Up and High Output-Voltage Converters. <i>IEEE Transactions on Power Electronics</i> , <b>2013</b> , 28, 1622-1631	7.2	63
133	Disturbances Attenuation of Permanent Magnet Synchronous Motor Drives Using Cascaded Predictive-Integral-Resonant Controllers. <i>IEEE Transactions on Power Electronics</i> , <b>2018</b> , 33, 1514-1527	7.2	60

132	A Control Strategy for Four-Switch Three-Phase Brushless DC Motor Using Single Current Sensor. <i>IEEE Transactions on Industrial Electronics</i> , <b>2009</b> , 56, 2058-2066	8.9	56
131	Speed Measurement Error Suppression for PMSM Control System Using Self-Adaption Kalman Observer. <i>IEEE Transactions on Industrial Electronics</i> , <b>2015</b> , 62, 2753-2763	8.9	54
130	Discontinuous Space Vector PWM Strategy of Neutral-Point-Clamped Three-Level Inverters for Output Current Ripple Reduction. <i>IEEE Transactions on Power Electronics</i> , <b>2017</b> , 32, 5109-5121	7.2	54
129	DCDC Boost Converter With a Wide Input Range and High Voltage Gain for Fuel Cell Vehicles. <i>IEEE Transactions on Power Electronics</i> , <b>2019</b> , 34, 4100-4111	7.2	53
128	Wide Input-Voltage Range Boost Three-Level DCDC Converter With Quasi-Z Source for Fuel Cell Vehicles. <i>IEEE Transactions on Power Electronics</i> , <b>2017</b> , 32, 6728-6738	7.2	51
127	Voltage Disturbance Rejection for Matrix Converter-Based PMSM Drive System Using Internal Model Control. <i>IEEE Transactions on Industrial Electronics</i> , <b>2012</b> , 59, 361-372	8.9	51
126	Decoupling-Controlled Triport Compositied DC/DC Converter for Multiple Energy Interface. <i>IEEE Transactions on Industrial Electronics</i> , <b>2015</b> , 62, 4504-4513	8.9	48
125	Commutation Torque Ripple Reduction Strategy of Z-Source Inverter Fed Brushless DC Motor. <i>IEEE Transactions on Power Electronics</i> , <b>2016</b> , 31, 7677-7690	7.2	48
124	Direct Torque Control for VSI-PMSM Using Vector Evaluation Factor Table. <i>IEEE Transactions on Industrial Electronics</i> , <b>2016</b> , 63, 4571-4583	8.9	45
123	Synchronized Space-Vector PWM for Three-Level VSI With Lower Harmonic Distortion and Switching Frequency. <i>IEEE Transactions on Power Electronics</i> , <b>2016</b> , 31, 6428-6441	7.2	44
122	A Novel Direct Torque and Flux Control Method of Matrix Converter-Fed PMSM Drives. <i>IEEE Transactions on Power Electronics</i> , <b>2014</b> , 29, 5417-5430	7.2	43
121	InputOutput 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> , <b>2012</b> , 59, 3489-3500	8.9	42
120	Online Multiparameter Identification of Surface-Mounted PMSM Considering Inverter Disturbance Voltage. <i>IEEE Transactions on Energy Conversion</i> , <b>2017</b> , 32, 202-212	5.4	42
119	Hybrid Control Set-Model Predictive Control for Field-Oriented Control of VSI-PMSM. <i>IEEE Transactions on Energy Conversion</i> , <b>2016</b> , 31, 1622-1633	5.4	41
118	A Modified Double Vectors Model Predictive Torque Control of Permanent Magnet Synchronous Motor. <i>IEEE Transactions on Power Electronics</i> , <b>2019</b> , 34, 11419-11428	7.2	38
117	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> , <b>2015</b> , 30, 1488-1498	7.2	36
116	Cogging Torque Modeling and Analyzing for Surface-Mounted Permanent Magnet Machines With Auxiliary Slots. <i>IEEE Transactions on Magnetics</i> , <b>2013</b> , 49, 5112-5123	2	36
115	Research on Torque Calculation Method of Permanent-Magnet Spherical Motor Based on the Finite-Element Method. <i>IEEE Transactions on Magnetics</i> , <b>2009</b> , 45, 2015-2022	2	36

114	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> , <b>2017</b> , 32, 825-836	7.2	34
113	Improved relative coupling control structure for multi-motor speed synchronous driving system. <i>IET Electric Power Applications</i> , <b>2016</b> , 10, 451-457	1.8	33
112	Modeling, Analyzing, and Parameter Design of the Magnetic Field of a Segmented Halbach Cylinder. <i>IEEE Transactions on Magnetics</i> , <b>2012</b> , 48, 1890-1898	2	33
111	. <i>IEEE Transactions on Power Electronics</i> , <b>2016</b> , 31, 5774-5785	7.2	31
110	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> , <b>2016</b> , 4, 1442-1451	5.6	30
109	A Torque Control Strategy for Torque Ripple Reduction of Brushless DC Motor With Nonideal Back Electromotive Force. <i>IEEE Transactions on Industrial Electronics</i> , <b>2017</b> , 64, 4423-4433	8.9	29
108	An Improved Control Strategy of Triple Line-Voltage Cascaded Voltage Source Converter Based on Proportional Resonant Controller. <i>IEEE Transactions on Industrial Electronics</i> , <b>2013</b> , 60, 2894-2908	8.9	28
107	Direct torque control of matrix converter-fed permanent magnet synchronous motor drives based on master and slave vectors. <i>IET Power Electronics</i> , <b>2015</b> , 8, 288-296	2.2	27
106	Predictive Torque Control of Permanent Magnet Synchronous Motors Using Flux Vector. <i>IEEE Transactions on Industry Applications</i> , <b>2018</b> , 54, 4437-4446	4.3	27
105	Theoretical Evaluation of Stability Improvement Brought by Resonant Current Loop for Paralleled LLC Converters. <i>IEEE Transactions on Industrial Electronics</i> , <b>2015</b> , 62, 4170-4180	8.9	26
104	A Novel Current Predictive Control Based on Fuzzy Algorithm for PMSM. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2019</b> , 7, 990-1001	5.6	25
103	Suppression of common mode voltage for matrix converter based on improved double line voltage synthesis strategy. <i>IET Power Electronics</i> , <b>2014</b> , 7, 1384-1395	2.2	25
102	Robust model predictive current control of grid-connected converter without alternating current voltage sensors. <i>IET Power Electronics</i> , <b>2014</b> , 7, 2934-2944	2.2	24
101	Flying-Capacitor-Based Hybrid LLC Converters With Input Voltage Autobalance Ability for High Voltage Applications. <i>IEEE Transactions on Power Electronics</i> , <b>2016</b> , 31, 1908-1920	7.2	23
100	Chaotic Dynamics Characteristic Analysis for Matrix Converter. <i>IEEE Transactions on Industrial Electronics</i> , <b>2013</b> , 60, 78-87	8.9	23
99	Steady-State Performance Improvement for LQR-Based PMSM Drives. <i>IEEE Transactions on Power Electronics</i> , <b>2018</b> , 33, 10622-10632	7.2	22
98	Equivalent Switch Circuit Model and Proportional Resonant Control for Triple Line-Voltage Cascaded Voltage-Source Converter. <i>IEEE Transactions on Power Electronics</i> , <b>2013</b> , 28, 2389-2401	7.2	22
97	Modeling and Analyzing of Surface-Mounted Permanent-Magnet Synchronous Machines With Optimized Magnetic Pole Shape. <i>IEEE Transactions on Magnetics</i> , <b>2014</b> , 50, 1-4	2	22

96	A hybrid analytical model for open-circuit field calculation of multilayer interior permanent magnet machines. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2017</b> , 435, 136-145	2.8	21
95	Optimal Designing of Permanent Magnet Cavity to Reduce Iron Loss of Interior Permanent Magnet Machine. <i>IEEE Transactions on Magnetics</i> , <b>2015</b> , 51, 1-9	2	21
94	Design and Analysis of a Variable Arc Permanent Magnet Array for Spherical Motor. <i>IEEE Transactions on Magnetics</i> , <b>2013</b> , 49, 1470-1478	2	20
93	Computationally efficient multi-step direct predictive torque control for surface-mounted permanent magnet synchronous motor. <i>IET Electric Power Applications</i> , <b>2017</b> , 11, 805-814	1.8	20
92	Switching-Gain Adaptation Current Control for Brushless DC Motors. <i>IEEE Transactions on Industrial Electronics</i> , <b>2015</b> , 1-1	8.9	20
91	Modeling and Analyzing of Magnetic Field of Segmented Halbach Array Permanent Magnet Machine Considering Gap Between Segments. <i>IEEE Transactions on Magnetics</i> , <b>2014</b> , 50, 1-9	2	20
90	Analytical Field Calculation and Analysis of Surface Inset Permanent Magnet Machines With High Saliency Ratio. <i>IEEE Transactions on Magnetics</i> , <b>2016</b> , 52, 1-12	2	19
89	Robust adaptive cross-coupling position control of biaxial motion system. <i>Science China Technological Sciences</i> , <b>2016</b> , 59, 680-688	3.5	19
88	Two-degree-of-freedom proportional integral speed control of electrical drives with Kalman-filter-based speed estimation. <i>IET Electric Power Applications</i> , <b>2016</b> , 10, 18-24	1.8	19
87	A Method of Resolver-to-Digital Conversion Based on Square Wave Excitation. <i>IEEE Transactions on Industrial Electronics</i> , <b>2018</b> , 65, 7211-7219	8.9	18
86	Commutation Torque Ripple Suppression Strategy for Brushless DC Motors With a Novel Noninductive Boost Front End. <i>IEEE Transactions on Power Electronics</i> , <b>2018</b> , 33, 4274-4284	7.2	18
85	Single-Current-Sensor Control for PMSM Driven by Quasi-Z-Source Inverter. <i>IEEE Transactions on Power Electronics</i> , <b>2019</b> , 34, 7013-7024	7.2	18
84	Commutation Torque Ripple Reduction of Brushless DC Motor in Braking Operation. <i>IEEE Transactions on Power Electronics</i> , <b>2018</b> , 33, 1463-1475	7.2	17
83	Self-circulation cooling structure design of permanent magnet machines for electric vehicle. <i>Applied Thermal Engineering</i> , <b>2020</b> , 165, 114593	5.8	17
82	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> , <b>2017</b> , 5, 547-558	5.6	16
81	Predictive torque control for voltage source inverter-permanent magnet synchronous motor based on equal torque effect. <i>IET Electric Power Applications</i> , <b>2016</b> , 10, 208-216	1.8	16
80	A Position Sensorless Control Strategy for the BLDCM Based on a Flux-Linkage Function. <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 66, 2570-2579	8.9	16
79	Space-Vector Overmodulation Strategy for Ultrasparse Matrix Converter Based on the Maximum Output Voltage Vector. <i>IEEE Transactions on Power Electronics</i> , <b>2017</b> , 32, 5388-5397	7.2	16

78	Proportional-Resonant Control of Doubly-Fed Induction Generator Wind Turbines for Low-Voltage Ride-Through Enhancement. <i>Energies</i> , <b>2012</b> , 5, 4758-4778	3.1	16
77	Generalized Predictive Contour Control of the Biaxial Motion System. <i>IEEE Transactions on Industrial Electronics</i> , <b>2018</b> , 65, 8488-8497	8.9	15
76	Harmonic suppression modulation strategy for ultra-sparse matrix converter. <i>IET Power Electronics</i> , <b>2016</b> , 9, 589-599	2.2	15
75	Improved double line voltage synthesis of matrix converter for input current enhancement under unbalanced power supply. <i>IET Power Electronics</i> , <b>2013</b> , 6, 798-808	2.2	15
74	. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 68, 2976-2987	8.9	15
73	Three effective vectors-based current control scheme for four-switch three-phase trapezoidal brushless DC motor. <i>IET Electric Power Applications</i> , <b>2013</b> , 7, 566-574	1.8	14
72	A Novel Variable DC-Link Voltage Control Method for PMSM Driven by a Quasi-Z-Source Inverter. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 3878-3890	7.2	14
71	Resolver-To-Digital Conversion Based on Acceleration-Compensated Angle Tracking Observer. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2019</b> , 68, 3494-3502	5.2	14
70	A Multimode Space Vector Overmodulation Strategy for Ultrasparse Matrix Converter With Improved Fundamental Voltage Transfer Ratio. <i>IEEE Transactions on Power Electronics</i> , <b>2018</b> , 33, 6782-6793	7.3	13
69	Precise Contour Control of Biaxial Motion System Based on MPC. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2018</b> , 6, 1711-1721	5.6	12
68	Minimization of Additional High-Frequency Torque Ripple for Square-Wave Voltage Injection IPMSM Sensorless Drives. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 13345-13355	7.2	10
67	A Smooth Torque Control Strategy for Brushless DC Motor in Braking Operation. <i>IEEE Transactions on Energy Conversion</i> , <b>2018</b> , 33, 1443-1452	5.4	10
66	A Commutation Torque Ripple Suppression Strategy for Brushless DC Motor Based on Diode-Assisted BuckBoost Inverter. <i>IEEE Transactions on Power Electronics</i> , <b>2019</b> , 34, 5594-5605	7.2	10
65	Advanced Four-Pair Architecture With Input Current Balance Function for Power Over Ethernet (PoE) System. <i>IEEE Transactions on Power Electronics</i> , <b>2013</b> , 28, 2343-2355	7.2	10
64	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> , <b>2021</b> , 36, 8988-9000	7.2	10
63	Finite set model predictive control method for quasi-Z source inverter-permanent magnet synchronous motor drive system. <i>IET Electric Power Applications</i> , <b>2019</b> , 13, 302-309	1.8	9
62	Improved equivalent magnetic network modeling for analyzing working points of PMs in interior permanent magnet machine. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2018</b> , 454, 39-50	2.8	9
61	Sensorless-MTPA Control of Permanent Magnet Synchronous Motor Based on an Adaptive Sliding Mode Observer. <i>Energies</i> , <b>2019</b> , 12, 3773	3.1	9



60	Torque ripple minimization of PMSM using PI type iterative learning control <b>2014</b> ,		9
59	Linear Quadratic Regulator Control for PMSM Drive Systems Using Nonlinear Disturbance Observer. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 5093-5101	7.2	9
58	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> , <b>2017</b> , 5, 1192-1204	5.6	8
57	Simplified predictive torque control for permanent magnet synchronous motor with discrete duty cycle control. <i>IET Electric Power Applications</i> , <b>2019</b> , 13, 294-301	1.8	8
56	Analytical Modeling and Analysis of Surface Mounted Permanent Magnet Machines With Skewed Slots. <i>IEEE Transactions on Magnetics</i> , <b>2015</b> , 51, 1-8	2	8
55	Direct self-control strategy for brushless DC motor with reduced torque ripple. <i>IET Electric Power Applications</i> , <b>2018</b> , 12, 398-404	1.8	8
54	Inductance Calculation of Interior Permanent Magnet Machines Considering Asymmetrical Saturation of the Bridge. <i>IEEE Transactions on Magnetics</i> , <b>2019</b> , 55, 1-11	2	8
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> , <b>2014</b> , 29, 6581-6592	7.2	8
52	Improved Model Predictive Control of Three-level Voltage Source Converter. <i>Electric Power Components and Systems</i> , <b>2014</b> , 42, 1029-1038	1	8
51	Assessing the Growth and Future Prospect of Wind Power in China <b>2010</b> ,		8
50	An Accurate Virtual Signal Injection Control for IPMSM With Improved Torque Output and Widen Speed Region. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 1941-1953	7.2	8
49	Harmonic Spectrum of Output Voltage for Space Vector-Modulated Matrix Converter Based on Triple Fourier Series. <i>IEEE Transactions on Power Electronics</i> , <b>2018</b> , 33, 10646-10653	7.2	7
48	A novel orientation measurement using optical sensor for spherical motor. <i>Science China Technological Sciences</i> , <b>2013</b> , 56, 1330-1339	3.5	7
47	Speed control of brushless DC motor using genetic algorithm based fuzzy controller		7
46	Braking Torque Control Strategy for Brushless DC Motor With a Noninductive Hybrid Energy Storage Topology. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 8417-8428	7.2	7
45	Research on Linear Output Voltage Transfer Ratio for Ultrasparse Matrix Converter. <i>IEEE Transactions on Power Electronics</i> , <b>2016</b> , 31, 1811-1815	7.2	6
44	Improved Double Line Voltage Synthesis Strategies of Matrix Converter for Input/Output Quality Enhancement. <i>IEEE Transactions on Industrial Electronics</i> , <b>2012</b> , 1-1	8.9	6
43	A modified predictive control strategy of three-phase grid-connected converters with optimized action time sequence. <i>Science China Technological Sciences</i> , <b>2013</b> , 56, 1017-1028	3.5	6

42	Modeling of Switched Reluctance Motor Based on Pi-sigma Neural Network <b>2007</b> ,		5
41	Accurate Analytical Method for Magnetic Field Calculation of Interior PM Motors. <i>IEEE Transactions on Energy Conversion</i> , <b>2021</b> , 36, 325-337	5-4	5
40	Design and Analysis for Torque Ripple Reduction in Synchronous Reluctance Machine. <i>IEEE Transactions on Magnetics</i> , <b>2018</b> , 54, 1-5	2	4
39	Harmonic Spectrum of Output Voltage for Space Vector Pulse Width Modulated Ultra Sparse Matrix Converter. <i>Energies</i> , <b>2018</b> , 11, 390	3-1	4
38	End-effect of the permanent-magnet spherical motor and its influence on back-EMF characteristics. <i>Science China Technological Sciences</i> , <b>2012</b> , 55, 206-212	3-5	4
37	Optimal space vector pulse width modulation strategy of neutral point clamped three-level inverter for output current ripple reduction. <i>IET Power Electronics</i> , <b>2017</b> , 10, 1638-1646	2-2	4
36	Control of Brushless DC Motor Using Fuzzy Set Based Immune Feedback PID Controller <b>2007</b> ,		4
35	Speed Control of Brushless DC Motor Based on Single Neuron PID and Wavelet Neural Network <b>2007</b> ,		4
34	Sensorless Control of Brushless DC Motor Based on Fuzzy Logic <b>2006</b> ,		4
33	Robust Design and Analysis of Asymmetric-Excited Flux Reversal PM Linear Machine for Long-Stroke Direct Drive Propulsion. <i>IEEE Transactions on Magnetics</i> , <b>2021</b> , 57, 1-4	2	4
32	VSP predictive torque control of PMSM. <i>IET Electric Power Applications</i> , <b>2019</b> , 13, 463-471	1-8	3
31	Hybrid space vector PWM strategy for three-level NPC inverters with optimal extension mode <b>2014</b> ,		3
30	Direct power control for three-level PWM rectifier based on hysteresis strategy. <i>Science China Technological Sciences</i> , <b>2012</b> , 55, 3019-3028	3-5	3
29	Position servo control of brushless DC motor based on the second discrete filter <b>2007</b> ,		3
28	Sensorless Position Control using Adaptive Wavelet Neural Network for PM BLDCM <b>2007</b> ,		3
27	Spherical harmonic analysis of a novel Halbach array PM spherical motor <b>2007</b> ,		3
26	Analysis of Synchronous Generator Internal Faults Based on Fractal <b>2006</b> ,		3
25	Adaptive PWM Speed Control for Switched Reluctance Motors Based on RBF Neural Network <b>2006</b> ,		3



24	Analysis and Evaluation of Hybrid-Excited Doubly Salient Permanent Magnet Linear Machine With DC-Biased Armature Current. <i>IEEE Transactions on Industry Applications</i> , <b>2021</b> , 57, 3666-3677	4.3	3
23	Self-regulating and self-evolving particle swarm optimizer. <i>Engineering Optimization</i> , <b>2015</b> , 47, 129-147	2	2
22	MPTC of NP-clamped three-level inverter-fed permanent-magnet synchronous motor system for NP potential imbalance suppression. <i>IET Electric Power Applications</i> , <b>2020</b> , 14, 658-667	1.8	2
21	MTPA Control of Sensorless IPMSM Based on High Frequency Square-Wave Signal Injection <b>2019</b> ,		2
20	Brushless DC Motors Control Based on Smith Predictor Modified by Fuzzy-PI Controller <b>2008</b> ,		2
19	Torque characteristic investigation of a permanent magnet spherical motor <b>2007</b> ,		2
18	A dynamic decoupling control algorithm for Halbach array permanent magnet spherical motor based on computed torque method <b>2007</b> ,		2
17	Study on the position identification of a Halbach array permanent magnet spherical motor <b>2007</b> ,		2
16	Variable structure control of BLDCM based on extended state observer		2
15	Supercapacitor/battery hybrid energy storage unit for brushless DC motor operation. <i>IET Electric Power Applications</i> , <b>2020</b> , 14, 597-604	1.8	2
14	An Improved Multimode Synchronized Space Vector Modulation Strategy for High-Power Medium-Voltage Three-Level Inverter. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 4686-4696	7.2	2
13	No-Tension Sensor Closed-Loop Control Method with Adaptive PI Parameters for Two-Motor Winding System. <i>Mathematical Problems in Engineering</i> , <b>2018</b> , 2018, 1-14	1.1	2
12	Model predictive current control for multilevel CHB-PMSM system with lower calculation. <i>IET Electric Power Applications</i> , <b>2020</b> , 14, 1089-1096	1.8	1
11	Predictive control with optimal vector sequence for permanent magnet synchronous motors. <i>Journal of Power Electronics</i> , <b>2020</b> , 20, 553-565	0.9	1
10	Torque control of permanent magnet synchronous motor using flux vector <b>2017</b> ,		1
9	A new algorithm for dynamic decoupling control of HPMSM using fuzzy controllers <b>2008</b> ,		1
8	A current control algorithm based on variable current threshold for four-switch three-phase BLDCM using intelligent controller <b>2008</b> ,		1
7	Rotor Position Estimation for Switched Reluctance Motor Using Support Vector Machine <b>2007</b> ,		1

6	Thermal analysis of the cooling system with the circulation between rotor holes of enclosed PMSMs based on modified models. <i>Applied Thermal Engineering</i> , <b>2022</b> , 206, 118054	5.8	1
5	Hybrid Discontinuous Space Vector PWM Strategy for Three-Level Inverters Under Two-Phase Loads Condition. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 1-1	7.2	1
4	The Torque Ripple Reduction in PMAREL Machine Using Time-Space Harmonics Analysis of Air-Gap Flux Density. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 1-1	8.9	1
3	Split ratio-based performance analysis method of PM-assisted reluctance machine. <i>International Journal of Applied Electromagnetics and Mechanics</i> , <b>2020</b> , 62, 737-761	0.4	
2	Field-Circuit Hybrid Method for Magnetic Actuator Using a Laminate Composite. <i>IEEE Transactions on Magnetics</i> , <b>2009</b> , 45, 5315-5318	2	
1	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> , <b>2022</b> , 1-1	6.8	