

Zq Zhu

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802
papers

23,110
citations

75
h-index

120
g-index

879
ext. papers

29,028
ext. citations

3.7
avg, IF

7.72
L-index

#	Paper	IF	Citations
802	Electrical Machines and Drives for Electric, Hybrid, and Fuel Cell Vehicles. <i>Proceedings of the IEEE</i> , 2007 , 95, 746-765	14.3	801
801	Influence of design parameters on cogging torque in permanent magnet machines. <i>IEEE Transactions on Energy Conversion</i> , 2000 , 15, 407-412	5.4	616
800	. <i>IEEE Transactions on Magnetics</i> , 1993 , 29, 143-151	2	439
799	. <i>IEEE Transactions on Magnetics</i> , 1993 , 29, 124-135	2	434
798	Analysis of electromagnetic performance of flux-switching permanent-magnet Machines by nonlinear adaptive lumped parameter magnetic circuit model. <i>IEEE Transactions on Magnetics</i> , 2005 , 41, 4277-4287	2	429
797	Improved analytical model for predicting the magnetic field distribution in brushless permanent-magnet machines. <i>IEEE Transactions on Magnetics</i> , 2002 , 38, 229-238	2	312
796	An Accurate Subdomain Model for Magnetic Field Computation in Slotted Surface-Mounted Permanent-Magnet Machines. <i>IEEE Transactions on Magnetics</i> , 2010 , 46, 1100-1115	2	280
795	Winding Configurations and Optimal Stator and Rotor Pole Combination of Flux-Switching PM Brushless AC Machines. <i>IEEE Transactions on Energy Conversion</i> , 2010 , 25, 293-302	5.4	274
794	Advanced Flux-Switching Permanent Magnet Brushless Machines. <i>IEEE Transactions on Magnetics</i> , 2010 , 46, 1447-1453	2	265
793	Analysis and Optimization of Back EMF Waveform of a Flux-Switching Permanent Magnet Motor. <i>IEEE Transactions on Energy Conversion</i> , 2008 , 23, 727-733	5.4	241
792	Analytical Methods for Minimizing Cogging Torque in Permanent-Magnet Machines. <i>IEEE Transactions on Magnetics</i> , 2009 , 45, 2023-2031	2	218
791	Eddy-current loss in the rotor magnets of permanent-magnet brushless machines having a fractional number of slots per pole. <i>IEEE Transactions on Magnetics</i> , 2005 , 41, 2462-2469	2	218
790	. <i>IEEE Transactions on Magnetics</i> , 1993 , 29, 136-142	2	216
789	Direct Active and Reactive Power Regulation of Grid-Connected DC/AC Converters Using Sliding Mode Control Approach. <i>IEEE Transactions on Power Electronics</i> , 2011 , 26, 210-222	7.2	189
788	Improved analytical modelling of rotor eddy current loss in brushless machines equipped with surface-mounted permanent magnets. <i>IET Electric Power Applications</i> , 2004 , 151, 641		183
787	Direct Active and Reactive Power Regulation of DFIG Using Sliding-Mode Control Approach. <i>IEEE Transactions on Energy Conversion</i> , 2010 , 25, 1028-1039	5.4	173
786	Analysis of Air-Gap Field Modulation and Magnetic Gearing Effects in Switched Flux Permanent Magnet Machines. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-12	2	162

785	Comparison of PM brushless motors, having either all teeth or alternate teeth wound. <i>IEEE Transactions on Energy Conversion</i> , 2006 , 21, 95-103	5.4	160
784	. <i>IEEE Transactions on Magnetics</i> , 1992 , 28, 1371-1374	2	147
783	Hybrid-Excited Flux-Switching Permanent-Magnet Machines With Iron Flux Bridges. <i>IEEE Transactions on Magnetics</i> , 2010 , 46, 1726-1729	2	144
782	Online Multiparameter Estimation of Nonsalient-Pole PM Synchronous Machines With Temperature Variation Tracking. <i>IEEE Transactions on Industrial Electronics</i> , 2011 , 58, 1776-1788	8.9	143
781	Improved Voltage-Vector Sequences on Dead-Beat Predictive Direct Power Control of Reversible Three-Phase Grid-Connected Voltage-Source Converters. <i>IEEE Transactions on Power Electronics</i> , 2013 , 28, 254-267	7.2	142
780	Direct torque control of brushless DC drives with reduced torque ripple. <i>IEEE Transactions on Industry Applications</i> , 2005 , 41, 599-608	4.3	139
779	. <i>IEEE Transactions on Magnetics</i> , 1993 , 29, 152-158	2	138
778	Unbalanced Magnetic Forces in Permanent-Magnet Brushless Machines With Diametrically Asymmetric Phase Windings. <i>IEEE Transactions on Industry Applications</i> , 2007 , 43, 1544-1553	4.3	137
777	Online Estimation of the Rotor Flux Linkage and Voltage-Source Inverter Nonlinearity in Permanent Magnet Synchronous Machine Drives. <i>IEEE Transactions on Power Electronics</i> , 2014 , 29, 418-427	7.2	136
776	An Improved Subdomain Model for Predicting Magnetic Field of Surface-Mounted Permanent Magnet Machines Accounting for Tooth-Tips. <i>IEEE Transactions on Magnetics</i> , 2011 , 47, 1693-1704	2	135
775	Current Control for Dual Three-Phase Permanent Magnet Synchronous Motors Accounting for Current Unbalance and Harmonics. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2014 , 2, 272-284	5.6	134
774	Reduction of Both Harmonic Current and Torque Ripple for Dual Three-Phase Permanent-Magnet Synchronous Machine Using Modified Switching-Table-Based Direct Torque Control. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 6671-6683	8.9	133
773	Multiphase Flux-Switching Permanent-Magnet Brushless Machine for Aerospace Application. <i>IEEE Transactions on Industry Applications</i> , 2009 , 45, 1971-1981	4.3	129
772	Investigation of Effectiveness of Sensorless Operation in Carrier-Signal-Injection-Based Sensorless-Control Methods. <i>IEEE Transactions on Industrial Electronics</i> , 2011 , 58, 3431-3439	8.9	128
771	Analysis of a Novel Multi-Tooth Flux-Switching PM Brushless AC Machine for High Torque Direct-Drive Applications. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 4313-4316	2	124
770	A Novel Hybrid-Excited Switched-Flux Brushless AC Machine for EV/HEV Applications. <i>IEEE Transactions on Vehicular Technology</i> , 2011 , 60, 1365-1373	6.8	123
769	A simple method for measuring cogging torque in permanent magnet machines 2009 ,		120
768	Influence of Skew and Cross-Coupling on Flux-Weakening Performance of Permanent-Magnet Brushless AC Machines. <i>IEEE Transactions on Magnetics</i> , 2009 , 45, 2110-2117	2	115

767	Permanent-magnet brushless machines with unequal tooth widths and similar slot and pole numbers. <i>IEEE Transactions on Industry Applications</i> , 2005 , 41, 584-590	4.3	114
766	Parameter Estimation for Condition Monitoring of PMSM Stator Winding and Rotor Permanent Magnets. <i>IEEE Transactions on Industrial Electronics</i> , 2013 , 60, 5902-5913	8.9	113
765	Direct Torque Control of Permanent-Magnet Synchronous Machine Drives With a Simple Duty Ratio Regulator. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 5249-5258	8.9	112
764	. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 59, 2414-2425	8.9	111
763	Minimization of Cogging Torque in Axial-Flux Permanent-Magnet Machines: Design Concepts. <i>IEEE Transactions on Magnetics</i> , 2007 , 43, 3614-3622	2	111
762	Average Torque Separation in Permanent Magnet Synchronous Machines Using Frozen Permeability. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 1202-1210	2	110
761	Analytical magnetic field analysis of Halbach magnetized permanent-magnet machines. <i>IEEE Transactions on Magnetics</i> , 2004 , 40, 1864-1872	2	109
760	Influence of Electric Loading and Magnetic Saturation on Cogging Torque, Back-EMF and Torque Ripple of PM Machines. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 2650-2658	2	108
759	Comparison of All- and Alternate-Poles-Wound Flux-Switching PM Machines Having Different Stator and Rotor Pole Numbers. <i>IEEE Transactions on Industry Applications</i> , 2010 , 46, 1406-1415	4.3	107
758	Acoustic noise radiated by PWM-controlled induction machine drives. <i>IEEE Transactions on Industrial Electronics</i> , 2000 , 47, 880-889	8.9	101
757	Novel Sensorless Control Strategy With Injection of High-Frequency Pulsating Carrier Signal Into Stationary Reference Frame. <i>IEEE Transactions on Industry Applications</i> , 2014 , 50, 2574-2583	4.3	98
756	A Novel Axial Field Flux-Switching Permanent Magnet Wind Power Generator. <i>IEEE Transactions on Magnetics</i> , 2011 , 47, 4457-4460	2	98
755	Analytical Model for Predicting Maximum Reduction Levels of Vibration and Noise in Switched Reluctance Machine by Active Vibration Cancellation. <i>IEEE Transactions on Energy Conversion</i> , 2011 , 26, 36-45	5.4	98
754	Commutation-Torque-Ripple Minimization in Direct-Torque-Controlled PM Brushless DC Drives. <i>IEEE Transactions on Industry Applications</i> , 2007 , 43, 1012-1021	4.3	97
753	Novel Partitioned Stator Switched Flux Permanent Magnet Machines. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-14	2	96
752	Improved Rotor-Position Estimation by Signal Injection in Brushless AC Motors, Accounting for Cross-Coupling Magnetic Saturation. <i>IEEE Transactions on Industry Applications</i> , 2009 , 45, 1843-1850	4.3	96
751	Analytical Modeling of Open-Circuit Air-Gap Field Distributions in Multisegment and Multilayer Interior Permanent-Magnet Machines. <i>IEEE Transactions on Magnetics</i> , 2009 , 45, 3121-3130	2	94
750	Influence of PWM on the Proximity Loss in Permanent-Magnet Brushless AC Machines. <i>IEEE Transactions on Industry Applications</i> , 2009 , 45, 1359-1367	4.3	94

749	Power Electronic Transformer-Based Railway Traction Systems: Challenges and Opportunities. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2017 , 5, 1237-1253	5.6	93
748	Flux-Weakening Control of Nonsalient Pole PMSM Having Large Winding Inductance, Accounting for Resistive Voltage Drop and Inverter Nonlinearities. <i>IEEE Transactions on Power Electronics</i> , 2012 , 27, 942-952	7.2	92
747	Electromagnetic Performance of Novel Variable Flux Reluctance Machines With DC-Field Coil in Stator. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 3020-3028	2	92
746	Analysis of Air-Gap Field Modulation and Magnetic Gearing Effect in Fractional-Slot Concentrated-Winding Permanent-Magnet Synchronous Machines. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 3688-3698	8.9	91
745	Stator and Rotor Pole Combinations for Multi-Tooth Flux-Switching Permanent-Magnet Brushless AC Machines. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 4659-4667	2	91
744	. <i>IEEE Transactions on Magnetics</i> , 1992 , 28, 2997-2999	2	91
743	Synthesis of cogging-torque waveform from analysis of a single stator slot. <i>IEEE Transactions on Industry Applications</i> , 2006 , 42, 650-657	4.3	89
742	Electrical machine topologies and technologies for electric, hybrid, and fuel cell vehicles 2008 ,		87
741	. <i>IEEE Transactions on Industry Applications</i> , 2011 , 47, 1681-1691	4.3	86
740	Influence of slot and pole number combination on radial force and vibration modes in fractional slot PM brushless machines having single- and double-layer windings 2009 ,		86
739	Analytical On-Load Subdomain Field Model of Permanent-Magnet Vernier Machines. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 4105-4117	8.9	83
738	Modular Three-Phase Permanent-Magnet Brushless Machines for In-Wheel Applications. <i>IEEE Transactions on Vehicular Technology</i> , 2008 , 57, 2714-2720	6.8	83
737	Cogging Torque in Flux-Switching Permanent Magnet Machines. <i>IEEE Transactions on Magnetics</i> , 2009 , 45, 4708-4711	2	82
736	Investigation of Torque Ripples in Permanent Magnet Synchronous Machines With Skewing. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 1211-1220	2	81
735	Vibration of PM Brushless Machines Having a Fractional Number of Slots Per Pole. <i>IEEE Transactions on Magnetics</i> , 2006 , 42, 3395-3397	2	80
734	. <i>IEEE Transactions on Industry Applications</i> , 2017 , 53, 4483-4492	4.3	79
733	Stator/Rotor Pole Combinations and Winding Configurations of Variable Flux Reluctance Machines. <i>IEEE Transactions on Industry Applications</i> , 2014 , 50, 3675-3684	4.3	79
732	Reduction of Torque and Flux Ripples in Space Vector Modulation-Based Direct Torque Control of Asymmetric Permanent Magnet Synchronous Machine. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 2976-2986	7.2	78

731	Alternate Poles Wound Flux-Switching Permanent-Magnet Brushless AC Machines. <i>IEEE Transactions on Industry Applications</i> , 2010 , 46, 790-797	4-3	77
730	Three-Dimensional Lumped-Parameter Magnetic Circuit Analysis of Single-Phase Flux-Switching Permanent-Magnet Motor. <i>IEEE Transactions on Industry Applications</i> , 2008 , 44, 1701-1710	4-3	77
729	Rotor resonances of high-speed permanent-magnet brushless machines. <i>IEEE Transactions on Industry Applications</i> , 2002 , 38, 1542-1548	4-3	77
728	Reduction of cogging torque in interior-magnet brushless machines. <i>IEEE Transactions on Magnetics</i> , 2003 , 39, 3238-3240	2	76
727	Sensorless flux-weakening control of permanent-magnet brushless machines using third harmonic back EMF. <i>IEEE Transactions on Industry Applications</i> , 2004 , 40, 1629-1636	4-3	75
726	Proximity Loss Study In High Speed Flux-Switching Permanent Magnet Machine. <i>IEEE Transactions on Magnetics</i> , 2009 , 45, 4748-4751	2	73
725	Comparison of flux-switching and doubly-salient permanent magnet brushless machines 2005 ,		73
724	Influence of Nonideal Voltage Measurement on Parameter Estimation in Permanent-Magnet Synchronous Machines. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 59, 2438-2447	8.9	72
723	Switched flux permanent magnet machines Innovation continues 2011 ,		72
722	Coordinated Direct Power Control of DFIG System Without Phase-Locked Loop Under Unbalanced Grid Voltage Conditions. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 2905-2918	7.2	71
721	. <i>IEEE Transactions on Energy Conversion</i> , 2015 , 30, 1472-1482	5.4	71
720	Novel Consequent-Pole Hybrid Excited Machine With Separated Excitation Stator. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 1-1	8.9	71
719	Torque Enhancement of Surface-Mounted Permanent Magnet Machine Using Third-Order Harmonic. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 104-113	2	69
718	Influence of Slot and Pole Number Combinations on Unbalanced Magnetic Force in PM Machines With Diametrically Asymmetric Windings. <i>IEEE Transactions on Industry Applications</i> , 2013 , 49, 19-30	4-3	69
717	Influence of Additional Air Gaps Between Stator Segments on Cogging Torque of Permanent-Magnet Machines Having Modular Stators. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 2049-2055	2	68
716	Predictive current control with current-error correction for PM brushless AC drives. <i>IEEE Transactions on Industry Applications</i> , 2006 , 42, 1071-1079	4-3	68
715	Analytical determination of optimal split ratio for permanent magnet brushless motors. <i>IET Electric Power Applications</i> , 2006 , 153, 7		67
714	Comparative Study of Novel Variable Flux Reluctance Machines With Doubly Fed Doubly Salient Machines. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 3838-3841	2	66

713	Investigation on Switching Patterns of Direct Power Control Strategies for Grid-Connected DC/AC Converters Based on Power Variation Rates. <i>IEEE Transactions on Power Electronics</i> , 2011 , 26, 3582-3598	7.2	66
712	. <i>IEEE Transactions on Magnetics</i> , 1992 , 28, 1080-1083	2	66
711	Online optimal flux-weakening control of permanent-magnet brushless AC drives. <i>IEEE Transactions on Industry Applications</i> , 2000 , 36, 1661-1668	4.3	65
710	Average Torque Improvement of Interior Permanent-Magnet Machine Using Third Harmonic in Rotor Shape. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 5047-5057	8.9	63
709	Novel Dual-Phase-Shift Control With Bidirectional Inner Phase Shifts for a Dual-Active-Bridge Converter Having Low Surge Current and Stable Power Control. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 4095-4106	7.2	63
708	Instantaneous Torque Estimation in Sensorless Direct-Torque-Controlled Brushless DC Motors. <i>IEEE Transactions on Industry Applications</i> , 2006 , 42, 1275-1283	4.3	62
707	Minimization of cogging force in a linear permanent magnet motor. <i>IEEE Transactions on Magnetics</i> , 1998 , 34, 3544-3547	2	62
706	Comparison of Cogging Torque Reduction in Permanent Magnet Brushless Machines by Conventional and Herringbone Skewing Techniques. <i>IEEE Transactions on Energy Conversion</i> , 2013 , 28, 664-674	5.4	61
705	Winding Inductances of Fractional Slot Surface-Mounted Permanent Magnet Brushless Machines 2008 ,		61
704	. <i>IEEE Transactions on Industrial Informatics</i> , 2018 , 14, 556-568	11.9	60
703	Low cost flux-switching brushless AC machines 2010 ,		60
702	An Analytical Model of Unbalanced Magnetic Force in Fractional-Slot Surface-Mounted Permanent Magnet Machines. <i>IEEE Transactions on Magnetics</i> , 2010 , 46, 2686-2700	2	60
701	. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-9	2	59
700	Design and analysis of high-speed brushless permanent magnet motors 1997 ,		59
699	Torque Improvement of Five-Phase Surface-Mounted Permanent Magnet Machine Using Third-Order Harmonic. <i>IEEE Transactions on Energy Conversion</i> , 2014 , 29, 735-747	5.4	58
698	Analytical Model of Eddy Current Loss in Windings of Permanent-Magnet Machines Accounting for Load. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 2138-2151	2	58
697	Rotor Eddy Current Loss Calculation and Thermal Analysis of Permanent Magnet Motor and Generator. <i>IEEE Transactions on Magnetics</i> , 2011 , 47, 4199-4202	2	58
696	Improved Sensorless Control of Permanent-Magnet Synchronous Machine Based on Third-Harmonic Back EMF. <i>IEEE Transactions on Industry Applications</i> , 2014 , 50, 1861-1870	4.3	57

695	Modeling and Investigation of Thermal Characteristics of a Water-Cooled Permanent-Magnet Linear Motor. <i>IEEE Transactions on Industry Applications</i> , 2015 , 51, 2086-2096	4.3	57
694	Modified switching-table strategy for reduction of current harmonics in direct torque controlled dual-three-phase permanent magnet synchronous machine drives. <i>IET Electric Power Applications</i> , 2015 , 9, 10-19	1.8	57
693	Analytical prediction of electromagnetic performance of surface-mounted PM machines based on subdomain model accounting for tooth-tips. <i>IET Electric Power Applications</i> , 2011 , 5, 597	1.8	57
692	Optimal Split Ratio in Fractional-Slot Interior Permanent-Magnet Machines With Non-Overlapping Windings. <i>IEEE Transactions on Magnetics</i> , 2010 , 46, 1235-1242	2	57
691	A Sliding-Mode Direct Power Control Strategy for DFIG Under Both Balanced and Unbalanced Grid Conditions Using Extended Active Power. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 1313-1322	7.2	56
690	Analytical Model for Predicting Magnet Loss of Surface-Mounted Permanent Magnet Machines Accounting for Slotting Effect and Load. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 107-117	2	56
689	Analysis and Suppression of Zero Sequence Circulating Current in Open Winding PMSM Drives With Common DC Bus. <i>IEEE Transactions on Industry Applications</i> , 2017 , 53, 3609-3620	4.3	55
688	Position-Offset-Based Parameter Estimation Using the Adaline NN for Condition Monitoring of Permanent-Magnet Synchronous Machines. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 2372-2383	8.9	54
687	Comparison of flux switching and surface mounted permanent magnet generators for high-speed applications. <i>IET Electrical Systems in Transportation</i> , 2011 , 1, 111	2.1	54
686	Influence of the Rotor Pole Number on Optimal Parameters in Flux-Switching PM Brushless AC Machines by the Lumped-Parameter Magnetic Circuit Model. <i>IEEE Transactions on Industry Applications</i> , 2010 , 46, 1381-1388	4.3	54
685	A Spoke-Type IPM Machine With Novel Alternate Airspace Barriers and Reduction of Unipolar Leakage Flux by Step-Staggered Rotor. <i>IEEE Transactions on Industry Applications</i> , 2016 , 52, 4789-4797	4.3	54
684	Vibration behaviour of stators of switched reluctance motors. <i>IET Electric Power Applications</i> , 2001 , 148, 257		53
683	Permanent Magnet Remagnetizing Physics of a Variable Flux Memory Motor. <i>IEEE Transactions on Magnetics</i> , 2010 , 46, 1679-1682	2	51
682	Starting Torque of Single-Phase Flux-Switching Permanent Magnet Motors. <i>IEEE Transactions on Magnetics</i> , 2006 , 42, 3416-3418	2	51
681	Novel Square-Wave Signal Injection Method Using Zero-Sequence Voltage for Sensorless Control of PMSM Drives. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 7444-7454	8.9	50
680	Investigation on Operational Envelops and Efficiency Maps of Electrically Excited Machines for Electrical Vehicle Applications. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-10	2	50
679	Influence and Compensation of Inverter Voltage Drop in Direct Torque-Controlled Four-Switch Three-Phase PM Brushless AC Drives. <i>IEEE Transactions on Power Electronics</i> , 2011 , 26, 2343-2357	7.2	50
678	Comparison of electromagnetic performance of brushless motors having magnets in stator and rotor. <i>Journal of Applied Physics</i> , 2008 , 103, 07F124	2.5	50

677	. <i>IEEE Transactions on Energy Conversion</i> , 2015 , 30, 772-783	5.4	49
676	Strand-level proximity losses in PM machines designed for high-speed operation 2008 ,		49
675	. <i>IEEE Transactions on Magnetics</i> , 1994 , 30, 98-107	2	49
674	Torque Density and Magnet Usage Efficiency Enhancement of Sandwiched Switched Flux Permanent Magnet Machines Using V-Shaped Magnets. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 3834-3837	3	48
673	Quantitative comparison of electromagnetic performance of electrical machines for HEVs/EVs. <i>CES Transactions on Electrical Machines and Systems</i> , 2017 , 1, 37-47	2.3	48
672	Comparison of Wound-Field Switched-Flux Machines. <i>IEEE Transactions on Industry Applications</i> , 2014 , 50, 3314-3324	4.3	47
671	. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 5000-5011	8.9	47
670	A Novel Method for Compensating Inverter Nonlinearity Effects in Carrier Signal Injection-Based Sensorless Control From Positive-Sequence Carrier Current Distortion. <i>IEEE Transactions on Industry Applications</i> , 2011 , 47, 1283-1292	4.3	47
669	Calculation of d- and q-axis inductances of PM brushless ac machines accounting for skew. <i>IEEE Transactions on Magnetics</i> , 2005 , 41, 3940-3942	2	47
668	Improved speed estimation in sensorless PM brushless AC drives. <i>IEEE Transactions on Industry Applications</i> , 2002 , 38, 1072-1080	4.3	47
667	Novel Partitioned Stator Hybrid Excited Switched Flux Machines. <i>IEEE Transactions on Energy Conversion</i> , 2017 , 32, 495-504	5.4	46
666	Influence of Pole and Slot Number Combinations on Cogging Torque in Permanent-Magnet Machines With Static and Rotating Eccentricities. <i>IEEE Transactions on Industry Applications</i> , 2014 , 50, 3265-3277	4.3	46
665	Influence of Stator Asymmetry on Cogging Torque of Permanent Magnet Brushless Machines. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 3851-3854	2	46
664	Torque Capability Enhancement of Dual Three-Phase PMSM Drive With Fifth and Seventh Current Harmonics Injection. <i>IEEE Transactions on Industry Applications</i> , 2017 , 53, 4526-4535	4.3	45
663	Electromagnetic Performance of Novel Synchronous Machines With Permanent Magnets in Stator Yoke. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-9	2	45
662	Investigation of Forces in Linear Induction Motor Under Different Slip Frequency for Low-Speed Maglev Application. <i>IEEE Transactions on Energy Conversion</i> , 2013 , 28, 145-153	5.4	45
661	Optimal Step-Skew Methods for Cogging Torque Reduction Accounting for Three-Dimensional Effect of Interior Permanent Magnet Machines. <i>IEEE Transactions on Energy Conversion</i> , 2017 , 32, 222-232	5.4	45
660	Comparison of Halbach magnetized brushless machines based on discrete magnet segments or a single ring magnet. <i>IEEE Transactions on Magnetics</i> , 2002 , 38, 2997-2999	2	45

659	Torque Improvement of Dual Three-Phase Permanent-Magnet Machine With Third-Harmonic Current Injection. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 6833-6844	8.9	44
658	A Variable-Flux Hybrid-PM Switched-Flux Memory Machine for EV/HEV Applications. <i>IEEE Transactions on Industry Applications</i> , 2016 , 52, 2203-2214	4.3	44
657	Robust Initial Rotor Position Estimation of Permanent-Magnet Brushless AC Machines With Carrier-Signal-Injection-Based Sensorless Control. <i>IEEE Transactions on Industry Applications</i> , 2013 , 49, 2602-2609	4.3	44
656	Position Offset-Based Parameter Estimation for Permanent Magnet Synchronous Machines Under Variable Speed Control. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 3438-3446	7.2	43
655	Cogging Torque Optimization of Flux-Switching Transverse Flux Permanent Magnet Machine. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 2169-2172	2	43
654	Novel Carrier Signal Injection Method Using Zero-Sequence Voltage for Sensorless Control of PMSM Drives. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 1-1	8.9	43
653	Mechanical Parameter Estimation of Permanent-Magnet Synchronous Machines With Aiding From Estimation of Rotor PM Flux Linkage. <i>IEEE Transactions on Industry Applications</i> , 2015 , 51, 3115-3125	4.3	43
652	Modeling of Cross-Coupling Magnetic Saturation in Signal-Injection-Based Sensorless Control of Permanent-Magnet Brushless AC Motors. <i>IEEE Transactions on Magnetics</i> , 2007 , 43, 2552-2554	2	43
651	Sensorless Operation Capability of Surface-Mounted Permanent-Magnet Machine Based on High-Frequency Signal Injection Methods. <i>IEEE Transactions on Industry Applications</i> , 2015 , 51, 2161-2174	4.3	42
650	Independent Operation of DFIG-Based WECS Using Resonant Feedback Compensators Under Unbalanced Grid Voltage Conditions. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 3650-3661	7.2	42
649	Analysis of Windings in Variable Reluctance Resolver. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-10	2	42
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278	Sliding mode current control of grid-connected voltage source converter 2010 ,		5
277	Comparison of analytical models for predicting electromagnetic performance in surface-mounted permanent magnet machines 2010 ,		5
276	Control of stator torsional vibration in PM brushless AC drives due to non-sinusoidal back-EMF and cogging torque by improved direct torque control 2011 ,		5
275	Optimal split ratio in fractional-slot interior permanent magnet machines with non-overlapping windings 2009 ,		5
274	Influence of design parameters on cogging torque in permanent magnet machines		5
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259	Compensation of Selective Current Harmonics for Switching-Table-Based Direct Torque Control of Dual Three-Phase PMSM Drives. <i>IEEE Transactions on Industry Applications</i> , 2021 , 57, 2505-2515	4.3	5
258	Adaptive Threshold Correction Strategy for Sensorless High-Speed Brushless DC Drives Considering Zero-Crossing-Point Deviation. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 5246-5257	8.9	5
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238	Improved permeance network model for embedded magnet synchronous machines 2014 ,		4
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236	Rotor position error compensation based on third harmonic back-EMF in flux observer sensorless control 2014 ,		4
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225	Direct torque control of brushless DC drives with reduced torque ripple		4
224	Analytical prediction of stator flux density waveforms and iron losses in brushless DC machines, accounting for load condition		4
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217	Influence of manufacturing tolerances on cogging torque in interior permanent magnet machines with eccentric and sinusoidal rotor contours 2016 ,		4
216	Determination of Electrical Parameters of PMSM Drive System at Standstill 2016 ,		4
215	Comparative Study of High Performance Double-Stator Switched Flux Permanent Magnet Machines 2016 ,		4
214	Influence of Demagnetization on Selecting the Optimum Slot/Pole Number Combination for 3MW Surface Mounted Permanent Magnet Vernier Machine 2019 ,		4
213	Analysis of Novel Consequent Pole Flux Reversal Permanent Magnet Machine 2019 ,		4
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202	Uncontrolled Generator Fault Protection of Novel Hybrid-excited Permanent Magnet Machines Utilizing Field Excitation Current Control 2018 ,		4
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185	Design considerations for high-power converters interfacing 10 MW superconducting wind power generators. <i>IET Power Electronics</i> , 2017 , 10, 1461-1467	2.2	3
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180	Analytical determination of optimal split ratio for overlapping and non-overlapping winding external rotor PM brushless machines 2011,		3
179	Rotor Eddy Current Loss in Single-Phase Permanent Magnet Brushless DC Motor. <i>Conference Record - IAS Annual Meeting (IEEE Industry Applications Society)</i> , 2007,		3
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176	Comparison of Halbach magnetized brushless motors equipped with air-cored and iron-cored rotors. <i>Journal of Applied Physics</i> , 2003 , 93, 8692-8694	2.5	3
175	Influence of motor topologies and design parameters on the starting torque of a single-phase PM brushless DC motor		3
174	Investigation of Asymmetric Consequent-Pole Hybrid Excited Flux Reversal Machines 2020,		3

173	Influence of Rotor Pole Number on Electromagnetic Performance of Double-Stator Switched Flux PM Machines 2016 ,		3
172	Electromagnetic Performance Analysis of 6-Slot/2-Pole High-Speed Permanent Magnet Motors with Coil-pitch of Two Slot-pitches. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 1-1	5.4	3
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168	Sensitivity of manufacturing tolerances on cogging torque in interior permanent magnet machines with different slot/pole number 2016 ,		3
167	Iron Loss in Surface-Mounted PM Machines Considering Tooth-Tip Local Magnetic Saturation 2016 ,		3
166	48V Starter-Generator Induction Machine with Pole Changing Windings 2019 ,		3
165	Influence of Coil Location and Current Angle in Permanent Magnet Wind Power Generators With High-Temperature Superconducting Armature Windings. <i>IEEE Transactions on Applied Superconductivity</i> , 2021 , 31, 1-10	1.8	3
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159	Optimal Flux Modulation Pole Number in Vernier Permanent Magnet Synchronous Machines 2018 ,		3
158	Hybrid Excited Stator Slot PM Machines with Overlapping Windings 2018 ,		3
157	A Generalized Decomposition Model of Dual Three-Phase Permanent Magnet Synchronous Machines Considering Asymmetric Impedances and Compensation Capability. <i>IEEE Transactions on Industry Applications</i> , 2021 , 57, 3763-3775	4.3	3
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152	Reduction of Open-Circuit DC Winding Induced Voltage in Hybrid-Excited Switched -Flux Permanent Magnet Machine 2019 ,		2
151	Investigation on Contribution of Inductance Harmonics to Torque Production in Multiphase Doubly Salient Synchronous Reluctance Machines. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-10	2	2
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145	Design and Simulation of a Brushless Self-Excited Air-Core Compensated Pulsed Alternator. <i>IEEE Transactions on Plasma Science</i> , 2019 , 47, 2979-2986	1.3	2
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143	Influence of gear ratio on electromagnetic performance and geometries of vernier permanent magnet synchronous machines 2017 ,		2
142	Experimental investigation of a partitioned stator flux reversal permanent magnet linear machine 2017 ,		2
141	Comparative study of two permanent magnet linear machines 2017 ,		2
140	Electromagnetic performance comparison of 18-slot/26-pole and 18-slot/10-pole fractional slot permanent magnet surface-mounted machines 2017 ,		2
139	Comparison of partitioned stator machines with different PM excitation stator topologies 2015 ,		2
138	Performance comparison of partitioned stator machines with NdFeB and ferrite magnets 2015 ,		2

137	Comparison of torque densities in alternate wound-field switched flux machines 2014 ,		2
136	Analytical modeling of multi-segment and multilayer interior permanent magnet machines 2014 ,		2
135	Electromagnetic performance analysis of synchronous reluctance machines having non-overlapping concentrated winding and AC sinusoidal bipolar with DC bias excitation 2013 ,		2
134	Space-vector PWM based direct torque control of PM brushless machine drives having non-ideal characteristics 2013 ,		2
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129	Simplified EKF based sensorless direct torque control of permanent magnet brushless AC drives. <i>International Journal of Automation and Computing</i> , 2004 , 1, 35-41	3.5	2
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127	Instantaneous torque estimation in sensorless direct torque controlled brushless DC motors		2
126	Design of powder alignment system for anisotropic bonded NdFeB halbach cylinders		2
125	Rotor resonances of high-speed permanent magnet brushless machines		2
124	CURVATURE EFFECTS IN RADIAL-FIELD PERMANENT MAGNET MACHINES. <i>Electric Power Components and Systems</i> , 1994 , 22, 511-520		2
123	Permanent Magnet Machines for High-Speed Applications. <i>World Electric Vehicle Journal</i> , 2022 , 13, 18	2.5	2
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121	Influence of Slot Number on Electromagnetic Performance of 2-pole High-Speed Permanent Magnet Motors with Toroidal Windings 2020 ,		2
120	Voltage Pulsation Induced in DC Field Winding of Different Hybrid Excitation Switched Flux Machines 2020 ,		2

119	Influence of Slot Number on Electromagnetic Performance of 2-pole High-Speed Permanent Magnet Motors With Toroidal Windings. <i>IEEE Transactions on Industry Applications</i> , 2021 , 1-1	4-3	2
118	Reduction of Open-Circuit DC Winding Induced Voltage and Torque Pulsation in the Wound Field Switched Flux Machine by Stator Axial Pairing of Tooth-Tips 2020 ,		2
117	Comparative study of alternative fuzzy logic control strategies of permanent magnet brushless AC drive		2
116	48 V Starter-Generator Induction Machine With Pole-Changing Windings. <i>IEEE Transactions on Industry Applications</i> , 2020 , 56, 6324-6337	4-3	2
115	Effect of Airgap Length on Electromagnetic Performance of Surface Mounted Permanent Magnet Vernier Machine 2020 ,		2
114	A Position Error Correction Method for Sensorless Control of Dual Three-Phase Permanent Magnet Synchronous Machines 2021 ,		2
113	A Low Switching Frequency SPWM Strategy for Open-winding Machine with Low Current Harmonics 2021 ,		2
112	Suppression of Torque Ripple for Consequent Pole PM Machine by Asymmetric Pole Shaping Method 2021 ,		2
111	Torque Improvement Utilizing Third Harmonic Current in Five-Phase PM Machines with Unequal Tooth 2016 ,		2
110	On-Load Performance in IPM Machines Having Different Slot/Pole Number Combinations Considering Local Magnetic Saturation 2016 ,		2
109	Compensation of Current Harmonics for Switching-Table-Based Direct Torque Control of Dual Three-Phase PMSM Drive 2019 ,		2
108	Comparative Analysis of Novel Fractional Slot Non-overlapping Winding Hybrid Excited Machines Having Different Consequent Pole Rotor Topologies 2019 ,		2
107	Analysis of Flux Regulation Principle in a Novel Hybrid-Magnet-Circuit Variable Flux Memory Machine 2019 ,		2
106	An Advanced Harmonic Compensation Strategy for Dual Three-Phase Permanent Magnet Synchronous Machines Considering Different Angle Displacements 2019 ,		2
105	Combined Lumped-Parameter and Simplified 2-D Analytical Thermal Model of Totally Enclosed Water Cooled PM Machine 2019 ,		2
104	Influences of PM Number and Shape of Spoke Array PM Flux Reversal Machines. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 36, 1131-1142	5-4	2
103	Analysis of Split-Tooth Stator Slot PM Machine. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 10580-10591	5-4	2
102	Influence of Rotor Eccentricity on Electromagnetic Performance of 2-pole/3-slot PM Motors. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 1-1	5-4	2

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97	Analytical Modelling and Optimization of Output Voltage Harmonic Spectra of Full-Bridge Modular Multilevel Converters in Boost Mode. <i>IEEE Transactions on Power Electronics</i> , 2021 , 1-1	7.2	2
96	Analysis of DC-Biased Vernier Reluctance Machines Having Distributed Windings. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-5	2	2
95	Enhancement of Disturbance Rejection Capability in Dual Three-Phase PMSM System by Using Virtual Impedance. <i>IEEE Transactions on Industry Applications</i> , 2021 , 57, 4901-4912	4.3	2
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92	Effect of Pole Shaping on Torque Characteristics of Consequent Pole PM Machines. <i>IEEE Transactions on Industry Applications</i> , 2022 , 1-1	4.3	2
91	Suppression of Torque Ripple for Consequent Pole PM Machine by Asymmetric Pole Shaping Method. <i>IEEE Transactions on Industry Applications</i> , 2022 , 1-1	4.3	2
90	A Novel Rotor Initial Position Detection Method Utilizing DC-link Voltage Sensor 2019 ,		1
89	A Novel Stator Spoke-Type Hybrid Magnet Memory Machine 2019 ,		1
88	Analytical Modeling of Dynamic Performance with Harmonic Current Injection for Doubly Salient Synchronous Reluctance Machines. <i>IEEE Transactions on Industry Applications</i> , 2020 , 1-1	4.3	1
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48	Comparison of Frequency and Time Domain Based Current Profiling Techniques for Acoustic Noise Reduction in Switched Reluctance Machine 2018 ,		1

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46	Comparison of Modular Dual 3-phase PM Machines with Overlapping/Non-overlapping Windings 2018 ,		1
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