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Fractional-Slot Concentrated-Windings Synchronous Permanent Magnet Machines: Opportunities and Challenges

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#	Paper	IF	Citations
1036	Studying rotor eddy current loss of PM machines using nonlinear FEM including rotor motion. 2010,		5
1035	Fault-Tolerant Electrical Motor Drives for Aerospace Application. 2010,		
1034	Fractional-slot concentrated-winding axial-flux permanent magnet machine with core-wound coils. 2010,		1
1033	Fault tolerant winding technology comparison for Flux Switching Machine. 2010,		4
1032	An integrated design of SM2C core motor for vehicular applications. 2010,		
1031	Modeling and analysis of fractional slot axial flux permanent-magnet machine considering overhang effect. 2010,		
1030	Advanced permanent magnet machines for a wide range of industrial applications. 2010,		10
1029	A comparative study of permanent magnet - synchronous and permanent magnet - flux switching machines for fault tolerant drive systems. 2010,		13
1028	Experimental verification of open circuit parameters of an IPM machine with concentrated windings. 2011,		3
1027	Eddy current losses reduction in fractional slot concentrated winding PM generators for More Electric Engine application. 2011,		7
1026	Feasibility and electromagnetic design of direct drive wheel actuator for green taxiing. 2011,		26
1025	Effect of design parameters on electromagnetic torque of PM machines with concentrated windings using nonlinear dynamic FEM. 2011,		4
1024	Analytical calculation of air-gap armature reaction field including slotting effects in fractional-slot concentrated-coil SPM multiphase machines. 2011,		8
1023	. 2011,		5
1022	Comparative study of permanent-magnet synchronous machines with concentrated windings for railway application. 2011,		3
1021	Slot/pole combinations choice for concentrated multiphase machines dedicated to mild-hybrid applications. 2011,		39
1020	Multiobjective Design Optimization of Five-Phase Halbach Array Permanent-Magnet Machine. 2011 , 47, 1658-1666		32

1019	Electrical generators for maritime application. 2011,		1
1018	Experimental verification of core and magnet losses in a concentrated wound IPM machine with V-shaped magnets used in field weakening applications. 2011,		4
1017	Torque components in integral- and fractional-slot IPM machines. 2011,		10
1016	Mathematical optimization of the MMF-function and -spectrum in concentrated winding machines. 2011,		5
1015	Sensorless Direct Flux and Torque Control for Direct Drive washing machine applications. 2011,		5
1014	Integer-slot vs fractional-slot concentrated-winding axial-flux permanent magnet machines: Comparative design, FEA and experimental tests. 2011,		3
1013	Analysis and optimization of a modular stator core with segmental teeth and solid back iron for pm electric machines. 2011,		3
1012	Axial Flux PM Machines With Concentrated Armature Windings: Design Analysis and Test Validation of Wind Energy Generators. <i>IEEE Transactions on Industrial Electronics</i> , 2011 , 58, 3795-3805	8.9	93
1011	2-D Exact Analytical Model for Surface-Mounted Permanent-Magnet Motors With Semi-Closed Slots. 2011 , 47, 479-492		161
1010	An Improved Subdomain Model for Predicting Magnetic Field of Surface-Mounted Permanent Magnet Machines Accounting for Tooth-Tips. 2011 , 47, 1693-1704		135
1009	Back-EMF Harmonic Analysis and Fault-Tolerant Control of Flux-Switching Permanent-Magnet Machine With Redundancy. <i>IEEE Transactions on Industrial Electronics</i> , 2011 , 58, 1926-1935	8.9	139
1008	Design Considerations for a Fault-Tolerant Flux-Switching Permanent-Magnet Machine. <i>IEEE Transactions on Industrial Electronics</i> , 2011 , 58, 2818-2825	8.9	109
1007	Faulty Operations of a PM Fractional-Slot Machine With a Dual Three-Phase Winding. <i>IEEE Transactions on Industrial Electronics</i> , 2011 , 58, 3825-3832	8.9	91
1006	. <i>IEEE Transactions on Industrial Electronics</i> , 2011 , 58, 3741-3757	8.9	120
1005	Permanent-Magnet Shape Optimization Effects on Synchronous Motor Performance. <i>IEEE Transactions on Industrial Electronics</i> , 2011 , 58, 3776-3783	8.9	51
1004	Design Studies on a Permanent Magnet Synchronous Machine With Y- and Δ -Connected Stator Winding. 2011 , 47, 1042-1045		8
1003	Eddy-Current Calculation of Solid Components in Fractional Slot Axial Flux Permanent Magnet Synchronous Machines. 2011 , 47, 4254-4257		18
1002	Finite element analysis of permanent magnet synchronous machines with fractional slot tooth coil windings. 2011 , 128, 86-94		5

1001	Design, analysis and loss minimization of a fractional-slot concentrated winding IPM machine for traction applications. 2011,	27
1000	On the computation of rotor losses through a set of harmonic finite element analyses in fractional-slot concentrated-coil permanent-magnet machines. 2011,	1
999	Design and analysis of a new fractional-slot-windings axial-flux permanent-magnet machine. 2011,	1
998	Impact of the rotor back-iron resistivity on the rotor eddy-current losses in fractional-slot concentrated windings PM machines. 2011,	6
997	A novel power-train using coaxial magnetic gear for power-split hybrid electric vehicles. 2011,	4
996	A Novel Cogging Torque Simulation Method for Permanent-Magnet Synchronous Machines. 2011, 4, 2166-2179	19
995	Performance analysis of IES journals using internet and text processing robots. 2011,	
994	Weight optimisation of a surface mount permanent magnet synchronous motor using genetic algorithms and a combined electromagnetic-thermal co-simulation environment. 2011,	10
993	Design and performance of slipring-less winding excited synchronous motor for hybrid electric vehicle applications. 2012,	2
992	PM fractional machines adopting bonded magnets: Effect of different magnetizations on the energetic performance. 2012,	5
991	Modeling of permanent magnet synchronous machine with fractional slot windings. 2012,	
990	Multipolar SPM machines for direct drive application: A comprehensive design approach. 2012,	3
989	Optimizing the control of permanent magnet polyphase segment synchronous motors in fault tolerant actuation systems. 2012,	0
988	High Temperature Permanent Magnet Machine Actuators for Aerospace Applications. 2012, 721, 141-146	3
987	Improved technique for minimizing torque pulsation in Halbach array permanent magnet machines. 2012, 31, 1590-1602	3
986	The preliminary results on Direct Torque Control for an fractional-slot concentrated winding Interior Permanent Magnet Synchronous Machine. 2012,	2
985	Fractional-Slot Concentrated-Winding Axial-Flux Permanent-Magnet Machine With Core-Wound Coils. 2012, 48, 630-641	29
984	Performance of a Folded-Strip Toroidally Wound Induction Machine. <i>IEEE Transactions on Industrial Electronics</i> , 2012, 59, 2217-2226	8.9 14

983	. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 59, 2414-2425	8.9	111
982	Vibrational Forces in Salient Pole Synchronous Machines Considering Tooth Ripple Effects. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 59, 2258-2266	8.9	18
981	Performance Comparison Between Surface-Mounted and Interior PM Motor Drives for Electric Vehicle Application. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 59, 803-811	8.9	259
980	Radial Forces in External Rotor Permanent Magnet Synchronous Motors With Non-Overlapping Windings. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 59, 2267-2276	8.9	74
979	A Multipole Synchronous Machine With Nonoverlapping Concentrated Armature and Field Windings on the Stator. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 59, 2583-2591	8.9	69
978	Investigation of the dq -Equivalent Model for Performance Prediction of Flux-Switching Synchronous Motors With Segmented Rotors. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 59, 2393-2402	8.9	13
977	Cogging Torque Analysis of Magnetic Gear. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 59, 2189-2197	8.9	57
976	Remarks on Torque Estimation Accuracy in Fractional-Slot Permanent-Magnet Motors. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 59, 2565-2572	8.9	28
975	Theoretic and Experimental Approach to the Adoption of Bonded Magnets in Fractional Machines for Automotive Applications. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 59, 2309-2318	8.9	41
974	Radial-Flux Permanent-Magnet Hub Drives: A Comparison Based on Stator and Rotor Topologies. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 59, 2475-2483	8.9	25
973	Design Aspects of a Novel Topology Air-Cored Permanent Magnet Linear Generator for Direct Drive Wave Energy Converters. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 59, 2104-2115	8.9	67
972	Performance Evaluation of a Five-Phase Modular Winding Induction Machine. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 59, 2654-2669	8.9	49
971	Wide Operational Speed Range of Five-Phase Permanent Magnet Machines by Using Different Stator Winding Configurations. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 59, 2621-2631	8.9	81
970	Permanent-Magnet Optimization in Permanent-Magnet-Assisted Synchronous Reluctance Motor for a Wide Constant-Power Speed Range. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 59, 2495-2502	8.9	123
969	Torque Control Strategy of Polyphase Permanent-Magnet Synchronous Machines With Minimal Controller Reconfiguration Under Open-Circuit Fault of One Phase. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 59, 2632-2644	8.9	61
968	Design of direct-driven permanent magnet synchronous motors for an electric sports car. 2012 ,		5
967	Torque ripple reduction in five-phase induction machines using mixed winding configurations. 2012 ,		2
966	The electromagnetic propeller based on a five-phase fault-tolerant permanent-magnet machine. 2012 ,		3

965	Electromechanical actuator for helicopter rotor damper application. 2012,	3
964	Torque enhanced Flux-Switching PM machine for aerospace applications. 2012,	8
963	Eddy current loss calculation in rotor back iron for concentrated winding PM generator. 2012,	3
962	On the validity of the harmonic superposition principle for computing rotor eddy current losses in permanent magnet machines. 2012,	8
961	Reducing the permanent magnet content in fractional-slot concentrated-windings permanent magnet synchronous machines. 2012,	3
960	Torque ripple reduction in fractional-slot Interior PM machines optimizing the flux-barrier geometries. 2012,	28
959	Use of Time-Harmonic FE Analysis to compute rotor eddy-current losses in synchronous machines subject to distorted stator currents. 2012,	6
958	Testing of advanced permanent magnet machines for a wide range of applications. 2012,	3
957	Characterization of radial magnetic forces in low-speed permanent magnet wind generator with non-overlapping concentrated windings. 2012,	9
956	Comparison of stochastic optimization methods for design optimization of permanent magnet synchronous motor. 2012, 21, 2049-2056	11
955	Parameter evaluation of permanent magnet synchronous machines with tooth coil windings using the frozen permeabilities method with the finite element analyses. 2012,	5
954	Parameter sensitivity study for optimization of field-excitation flux switching synchronous machine for hybrid electric vehicles. 2012,	4
953	Scalability characteristics of magnetic circuit model for fractional-slot concentrated winding IPM machines. 2012,	2
952	Study on fractional slot permanent magnet synchronous machine for wind turbines. 2012,	1
951	Synthesis and analysis of a high-performance low-cost permanent magnet brushless DC motor. 2012, 31, 1482-1491	4
950	Torque Ripple Reduction of a Direct-Drive Permanent-Magnet Synchronous Machine by Material-Efficient Axial Pole Pairing. <i>IEEE Transactions on Industrial Electronics</i> , 2012, 59, 2601-2611	8,9 56
949	Use of Time-Harmonic Finite-Element Analysis to Compute Stator Winding Eddy-Current Losses Due to Rotor Motion in Surface Permanent-Magnet Machines. 2012, 27, 670-679	32
948	Optimal Power Utilization by Adjusting Torque Boost and Field Weakening Operation in Permanent Magnet Traction Motors. 2012, 27, 615-623	8

947	Magnetic forces and vibration in permanent magnet machines with non-overlapping concentrated windings: A review. 2012,		11
946	A Practical Solution to Mitigate Vibrations in Industrial PM Motors Having Concentric Windings. 2012, 48, 1526-1538		40
945	. 2012, 48, 1487-1495		43
944	A multi-phase PM synchronous generator torque control for direct-drive wind turbines. 2012,		4
943	Analytical model of magnet eddy-current volume losses in multi-phase PM machines with concentrated winding. 2012,		7
942	Torque production capabilities of electrical machines with planar windings. 2012,		6
941	Design of a low torque ripple fractional-slot interior permanent magnet motor. 2012,		25
940	Optimized Design of a Brushless DC Permanent Magnet Motor for Propulsion of an Ultra Light Aircraft. 2012, 53, 244-254		6
939	ELECTROMAGNETIC DESIGN AND ANALYSIS OF DOUBLE-ROTOR FLUX-MODULATED PERMANENT-MAGNET MACHINES. 2012, 131, 81-97		16
938	Review of direct-drive radial flux wind turbine generator mechanical design. 2012, 15, 459-472		19
937	A Novel Slotless Halbach-Array Permanent-Magnet Brushless DC Motor for Spacecraft Applications. <i>IEEE Transactions on Industrial Electronics,</i> 2012, 59, 3553-3560	8.9	55
936	Overview of Electric Motor Technologies Used for More Electric Aircraft (MEA). <i>IEEE Transactions on Industrial Electronics,</i> 2012, 59, 3523-3531	8.9	447
935	Effects of MMF Harmonics on Rotor Eddy-Current Losses for Inner-Rotor Fractional Slot Axial Flux Permanent Magnet Synchronous Machines. 2012, 48, 839-842		47
934	Geometry Optimization of PMSMs Comparing Full and Fractional Pitch Winding Configurations for Aerospace Actuation Applications. 2012, 48, 943-946		35
933	Harmonic Loss Calculation in Rotor Surface Permanent Magnets New Analytic Approach. 2012, 48, 2358-2366		49
932	Analysis and comparison of axial-flux permanent-magnet brushless-DC machines with fractional-slot concentrated-windings. 2013,		9
931	Fractional-slot concentrated-windings: A paradigm shift in electrical machines. 2013,		12
930	Effect of Slot-and-Pole Combination on the Leakage Inductance and the Performance of Tooth-Coil Permanent-Magnet Synchronous Machines. <i>IEEE Transactions on Industrial Electronics,</i> 2013, 60, 4310-4317	8.9	71

929	. 2013 , 49, 5124-5134	22
928	Synchronous Demodulation of Control Voltages for Stator Interturn Fault Detection in PMSM. 2013 , 28, 5647-5654	42
927	Comparison of five topologies rotor permanent magnet motors with improved fault-tolerance. 2013 ,	4
926	. 2013 ,	
925	. 2013 , 49, 3826-3829	64
924	Application of fractional slot concentrated windings to synchronous reluctance machines. 2013 ,	26
923	Synchronous reluctance and interior permanent magnet motors. 2013 ,	16
922	Optimal current waveforms for torque control of permanent magnet synchronous machines with any number of phases in open circuit. 2013 , 90, 1-14	12
921	Harmonic winding factors and MMF analysis for five-phase fractional-slot concentrated winding PMSM. 2013 ,	7
920	Hybrid data-based/model-based inter-turn fault detection methods for PM drives with manufacturing faults. 2013 ,	1
919	Comparison of outer-rotor permanent magnet machines for in-wheel drives. 2013 ,	6
918	Split Ratio Optimization for High-Torque PM Motors Considering Global and Local Thermal Limitations. 2013 , 28, 493-501	30
917	Torque ripple analysis of three-phase induction machines with Non-Uniform Coil Groups Distribution. 2013 ,	
916	Evaluation of motor-drive segmentation strategies for fault-tolerance. 2013 ,	4
915	Brushless AC interior-permanent magnet motor design: Comparison of slot/pole combinations and distributed vs. concentrated windings. 2013 ,	13
914	Validation of eddy current loss models for permanent magnet machines with fractional-slot concentrated windings. 2013 ,	7
913	Advanced high power-density interior permanent magnet motor for traction applications. 2013 ,	22
912	Design and characterization of 6.2 kW low speed Generator for wave linear reciprocating energy conversion. 2013 ,	1

911	Utilizing cable winding and industrial robots to facilitate the manufacturing of electric machines. 2013 , 29, 246-256		19
910	Influence of Slot and Pole Number Combinations on Unbalanced Magnetic Force in PM Machines With Diametrically Asymmetric Windings. 2013 , 49, 19-30		69
909	Inter-Turn Fault Detection in PM Synchronous Machines by Physics-Based Back Electromotive Force Estimation. <i>IEEE Transactions on Industrial Electronics</i> , 2013 , 60, 3472-3484	8.9	103
908	Remedial Injected-Harmonic-Current Operation of Redundant Flux-Switching Permanent-Magnet Motor Drives. <i>IEEE Transactions on Industrial Electronics</i> , 2013 , 60, 151-159	8.9	95
907	Rotor surface ferrite magnet synchronous machine for generator use in a hybrid application □ Electro-magnetic and thermal analysis. 2013 ,		11
906	Loss minimization in high-speed Permanent Magnet Synchronous Machines with tooth-coil windings. 2013 ,		9
905	. 2013 , 49, 929-938		23
904	Average Torque Separation in Permanent Magnet Synchronous Machines Using Frozen Permeability. 2013 , 49, 1202-1210		110
903	Influence of the Stator Windings Configuration in the Currents and Zero-Sequence Voltage Harmonics in Permanent Magnet Synchronous Motors With Demagnetization Faults. 2013 , 49, 4885-4893		45
902	Performance of Low-Cost Permanent Magnet Material in PM Synchronous Machines. <i>IEEE Transactions on Industrial Electronics</i> , 2013 , 60, 2131-2138	8.9	81
901	Coupled Computation of Electric Motor Design and Control Parameters Based on Ant Colonies Speed Trajectory Optimization. 2013 , 49, 2177-2180		3
900	Industrial low cost temperature measurement in permanent electro-magnetic platens. 2013 , 46, 324-335		8
899	FEA estimation and experimental validation of solid rotor and magnet eddy current loss in single-sided axial flux permanent magnet machines. 2013 ,		6
898	. <i>IEEE Transactions on Industrial Electronics</i> , 2013 , 60, 4852-4860	8.9	8
897	High-Torque-Density High-Efficiency Flux-Switching PM Machine for Aerospace Applications. 2013 , 1, 327-336		30
896	Design and experimental verification of an 18-slot/10-pole fractional-slot surface-mounted permanent-magnet machine. 2013 ,		6
895	Design and characterization of 9.4 kW generator for wave linear reciprocating energy conversion. 2013 ,		1
894	Mathematical Model of a PM Brushless Motor with Different Stator-Rotor Pole Pairs Number. 2013 ,		1

893	Investigation of a Novel 24-Slot/14-Pole Six-Phase Fault-Tolerant Modular Permanent-Magnet In-Wheel Motor for Electric Vehicles. 2013 , 6, 4980-5002	43
892	Optimal Design of a Five-Phase Outer-Rotor Permanent-Magnet Synchronous Machine. 2013 , 416-417, 127-132	3
891	High power-density fault-tolerant PM generator for safety critical applications. 2013 ,	
890	Influence of slot opening width on the performance of surface permanent magnet motors with fractional slot concentrated windings. 2013 ,	1
889	Analysis of d- and q-axis inductances and saliency ratios in interior permanent magnet machines with fractional-slot concentrated- windings considering harmonic effects. 2013 ,	0
888	Brushless PM actuator for metal bending machine. 2013 ,	4
887	Investigation of radial electromagnetic force density and vibration in a fractional-slot interior permanent magnet synchronous machine. 2013 ,	6
886	Current linkage harmonics and air-gap harmonic leakage inductance of tooth-coil permanent-magnet synchronous machines. 2013 ,	5
885	Sensorless method for the compensation of cogging torque in PM synchronous machines. 2013 ,	0
884	Winding factors and magnetic fields in permanent magnet brushless machines with concentrated windings and modular stator cores. 2013 ,	4
883	Impact of production tolerances on losses in electrical machines. 2013 ,	
882	Performance analysis of a three-phase induction motor with double-triple winding layout. 2013 ,	1
881	Influence of slot harmonics on radial magnetic forces in low-speed PM machine with concentrated windings. 2013 ,	5
880	Design study of single and three-phase synchronous generator using J-MAG designer. 2013 ,	1
879	Influence of slot opening on electromagnetic performances in fractional-slot interior permanent-magnet machines with concentrated windings for EV application. 2013 ,	
878	Ferrite-magnet spoke-type IPMSM with W-shaped magnet placement. 2013 ,	7
877	Permanent magnet volume minimization of spoke type fractional slot synchronous motors. 2014 ,	11
876	Permanent Magnet Machines for Traction Applications. 2014 , 1-20	6

875	Design and modeling of three-phase tubular linear flux-switching permanent magnet motor. 2014,		2
874	Torque ripple reduction methods for an interior permanent magnet synchronous generator. 2014,		3
873	Design of a synchronous reluctance motor with non-overlapping fractional-slot concentrated windings. 2014,		6
872	Analysis of MMF and back-EMF waveforms for fractional-slot concentrated-wound permanent magnet machines. 2014,		12
871	Optimal design of inner evaporative cooling permanent magnet wind power generator. 2014,		
870	Design and analysis of ferrite based permanent magnet motor for electric assist bicycle. 2014,		3
869	Five-Phase Version of 12Slots/8Poles Three-Phase Synchronous Machine for Marine-Propulsion. 2014,		7
868	Investigation of a five-phase 20-slot/18-pole PMSM for electric vehicles. 2014,		3
867	Performance improvement in mini-type brushless DC motors with fractional-slot concentrated windings. 2014,		
866	Computationally efficient skew effect calculation in electric machines utilising harmonic Maxwellian stress decomposition. 2014,		0
865	Performance analysis of a new concentratedwinding interior permanent magnet synchronous machine under Field Oriented Control. 2014,		3
864	Analytical modeling of eddy current losses in Axial Flux PMSM using resistance network. 2014,		8
863	Sensorless Control for SPMSM With Concentrated Windings Using Multisignal Injection Method. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 6624-6634	8.9	51
862	Design of a traction motor with two-step gearbox for high-torque applications. 2014,		7
861	Effects of loading on radial magnetic forces in low-speed permanent magnet machine with concentrated windings. 2014,		
860	Torque ripple reduction in 12-slot 10-pole fractional slot permanent magnet synchronous motors with non-overlapping windings by implementation of unequal stator teeth widths. 2014,		4
859	Torque ripple reduction in double-layer 18/16 TC-PMSMs by adjusting teeth widths to minimize local saturation. 2014,		6
858	Slot Harmonic Effect on Magnetic Forces and Vibration in Low-Speed Permanent-Magnet Machine With Concentrated Windings. 2014 , 50, 3304-3313		29

857	Thermal model of totally enclosed water-cooled permanent magnet synchronous machines for electric vehicle applications. 2014,	7
856	High-speed functionality optimization of five-phase PM machine using third harmonic current. 2014 , 33, 879-893	8
855	Research on a 20-Slot/22-Pole Five-Phase Fault-Tolerant PMSM Used for Four-Wheel-Drive Electric Vehicles. 2014, 7, 1265-1287	17
854	Design and Analysis of Fractional-Slot Concentrated-Winding Permanent Magnet Machine for Wind Power Generation. 2014, 668-669, 611-614	
853	Performance Analysis of Novel Fractional-Slot Concentrated-Winding Permanent Magnet Machine with Different Pole and Slot Matching. 2014, 668-669, 625-628	
852	Comparison of leakage inductance between fractional slot winding and distributed winding. 2014,	6
851	On fault tolerance for IPM-FSCW machines adopting a modular converter. 2014,	1
850	Performance and core loss of concentrated winding IPMSM with different core treatment. 2014,	1
849	. 2014,	
848	On the feasibility of integer and fractional number of slots per pole distributed winding designs for synchronous reluctance motors. 2014,	4
847	. 2014,	1
846	. 2014,	6
845	Design and build-up of a high performance six-phase machine for an automotive application. 2014,	1
844	Mitigation of acoustic noise by minimize torque and radial force fluctuation in fault tolerant permanent magnet machines. 2014,	6
843	Synchronous reluctance motors with toroidal windings. 2014,	5
842	An improved method for design of symmetrical multiphase winding with optimal space harmonics spectrum. 2014,	2
841	Machine design considerations for an MHF/SPB-converter based electric drive. 2014,	9
840	Design of small-size generator for variable speed micro-hydroelectric power plants. 2014,	3

839	Torque ripple minimization technique in fractional-slot PM brushless machines. 2014,	
838	Study of magnetic losses in rotor of permanent magnet synchronous machine. 2014,	0
837	Investigation of a five-phase 30-slot/32-pole in-wheel outer-rotor permanent-magnet synchronous machine for electric vehicles. 2014,	2
836	Electromechanical Actuator for Helicopter Rotor Damper Application. 2014, 50, 1007-1014	21
835	Multi-layer windings effect on interior PM machines for EV applications. 2014,	6
834	Electromagnetic Performance of an 18-Slot/10-Pole Fractional-Slot Surface-Mounted Permanent-Magnet Machine. 2014, 50, 3685-3696	25
833	Design and drive-cycle based analysis of direct-driven permanent magnet synchronous machine for a small urban use electric vehicle. 2014,	4
832	Topology Exploration of Static-Excited Cylindrical Machines Using a General Analytical Magnetic Field Solution. 2014, 50, 1-4	1
831	Plug-in, direct flux vector control of PM synchronous machine drives. 2014,	1
830	Design of a fractional slot multi-phase PMSG for a direct-drive wind turbine. 2014,	4
829	New 5-phase concentrated winding machine with bi-harmonic rotor for automotive application. 2014,	11
828	Analytical characterization of a permanent magnet synchronous machine with fractional slot concentrated windings. 2014,	
827	Evolutionary Optimization of a Fractional Slot Interior Permanent Magnet Motor for a Small Electric Bus. 2014, 792, 373-378	
826	Analysis of different PM machines with concentrated windings and flux barriers in stator core. 2014	8
825	Multi-operating points PM motor design methodology for electric actuation systems. 2014,	4
824	High power density integrated electro-hydraulic energy converter for heavy hybrid off-highway working vehicles. 2014, 4, 114-121	18
823	Geometry Optimization of Synchronous Machines Used on Ship Shaft Generator Systems. 2014, 792, 245-250	1
822	On the Possibility of Fractional-Slot Concentrated-Winding Permanent Magnet Machine for Wind Power Generation. 2014, 945-949, 2858-2862	

821	Influence of magnet layer number on electromagnetic performance of ferrite interior permanent magnet synchronous machine. 2014 ,		6
820	A Generic Approach to Reduction of Magnetomotive Force Harmonics in Permanent-Magnet Machines With Concentrated Multiple Three-Phase Windings. 2014 , 50, 1-4		14
819	Investigation of Magnetically Isolated Multiphase Modular Permanent-Magnet Synchronous Machinery Series for Wheel-Driving Electric Vehicles. 2014 , 50, 1-4		16
818	Air gap MMF based prediction of eddy current loss in the PMs of concentrated winding brushless machines. 2014 , 33, 1558-1568		2
817	. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 1692-1699	8.9	11
816	Influence of the Amount of Permanent-Magnet Material in Fractional-Slot Permanent-Magnet Synchronous Machines. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 4979-4989	8.9	28
815	. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 2041-2052	8.9	145
814	Determination of Maximum Electromagnetic Torque in PM Brushless Machines Having Two-Segment Halbach Array. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 718-729	8.9	39
813	Direct-Driven Interior Magnet Permanent-Magnet Synchronous Motors for a Full Electric Sports Car. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 4286-4294	8.9	96
812	Effect of Stator Winding Connection on Performance of Five-Phase Induction Machines. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 3-19	8.9	70
811	A Novel Type of Hybrid Reluctance Motor Drive. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 4338-4345	8.9	40
810	General Analytical Model of Magnet Average Eddy-Current Volume Losses for Comparison of Multiphase PM Machines With Concentrated Winding. 2014 , 29, 72-83		48
809	Detection of interturn faults in PMSMs with different winding configurations. 2014 , 79, 534-542		24
808	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
807	A Seminumerical Finite-Element Postprocessing Torque Ripple Analysis Technique for Synchronous Electric Machines Utilizing the Air-Gap Maxwell Stress Tensor. 2014 , 50, 1-9		35
806	Performance evaluation of a fault-tolerant decoupled dual-channel switched reluctance motor drive under open-circuits. 2014 , 8, 117-130		24
805	Multipolar SPM Machines for Direct-Drive Application: A General Design Approach. 2014 , 50, 327-337		22
804	Influence of Pole and Slot Combinations on Magnetic Forces and Vibration in Low-Speed PM Wind Generators. 2014 , 50, 1-11		68

803	Design limitations of 6-slot 2-pole high-speed permanent Magnet Synchronous machines with Tooth-Coil windings. 2014,		3
802	Design of a 10p-12s SMPM synchronous machine for a dynamic focus adjustment of a laser beam. 2014,		
801	A F.E.M analysis for a 9/10 pole permanent magnet synchronous motor. 2014,		
800	A new PM-assisted Synchronous Reluctance machine with a nonconventional fractional slot per pole combination. 2014,		21
799	Analytical Calculation of Magnetic Field and Cogging Torque in Surface-Mounted Permanent-Magnet Machines Accounting for Any Eccentric Rotor Shape. <i>IEEE Transactions on Industrial Electronics</i> , 2014, 1-1	8.9	52
798	A Hybrid-Excited Flux-Switching Machine for High-Speed DC-Alternator Applications. <i>IEEE Transactions on Industrial Electronics</i> , 2014, 61, 2976-2989	8.9	77
797	High-Power-Density Fault-Tolerant PM Generator for Safety-Critical Applications. 2014, 50, 1717-1728		31
796	A new permanent-magnet vernier machine using a single layer winding layout for electric vehicles. 2014,		1
795	Fractional slot winding versus distributed winding using winding function method. 2014,		4
794	Effects of Manufacturing Imperfections in Concentrated Coil Axial Flux PM Machines: Evaluation and Tests. <i>IEEE Transactions on Industrial Electronics</i> , 2014, 61, 5012-5024	8.9	26
793	Design and comparison of 33 slot permanent magnet synchronous motor with symmetric and asymmetric AC windings. 2014,		1
792	Inductance evaluation of fractional slot permanent magnet synchronous motors with non-overlappingwinding by analytical approaches. 2014,		3
791	Direct Flux Control of PM synchronous motor drives for traction applications. 2014,		5
790	Analysis and design of a recipracting linear generator for a PTO. 2014,		1
789	Analytical Prediction of Operational Inductances in Surface Permanent-Magnet Synchronous Machine. 2014, 24, 1-5		3
788	Fractional-Slot Concentrated-Winding Axial-Flux Permanent-Magnet Machine With Tooth-Wound Coils. 2014, 50, 2446-2457		10
787	Study of Multiphase Superconducting Wind Generators With Fractional-Slot Concentrated Windings. 2014, 24, 1-6		3
786	Synthesis of High Performance Fractional-Slot Permanent-Magnet Machines With Coil-Pitch of Two Slot-Pitches. 2014, 29, 758-770		38

785	Inductance Calculation of Tooth-Coil Permanent-Magnet Synchronous Machines. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 5966-5973	8.9	36
784	Sensorless-oriented design of IPMSM. 2014 ,		2
783	. 2014 , 50, 3235-3248		129
782	Eddy current losses in permanent magnets of permanent magnet synchronous machines □ Analytical calculation methods and high order finite element analyses. 2014 ,		
781	Design of a Traction Motor With Tooth-Coil Windings and Embedded Magnets. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 4306-4314	8.9	19
780	Electromagnetic performance of high-torque and low-speed PM brushless machines. 2014 ,		0
779	Design of a Low-Torque-Ripple Fractional-Slot Interior Permanent-Magnet Motor. 2014 , 50, 1801-1808		50
778	Torque Enhancement of Surface-Mounted Permanent Magnet Machine Using Third-Order Harmonic. 2014 , 50, 104-113		69
777	Current Sharing Analysis of Parallel Strands in Low-Voltage High-Speed Machines. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 3064-3070	8.9	49
776	Magnetic Model Self-Identification for PM Synchronous machine drives. 2014 ,		4
775	Analytical Modeling of Surface PMSM Using a Combined Solution of Maxwell's Equations and Magnetic Equivalent Circuit. 2014 , 50, 1-13		51
774	Design and analysis of high-power/high-torque density dual excitation switched-flux machine for traction drive in HEVs. 2014 , 34, 517-524		27
773	Investigation and Experimental Verification of a Novel Spoke-Type Ferrite-Magnet Motor for Electric-Vehicle Traction Drive Applications. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 5763-5770	8.9	73
772	Feasibility study of a superconducting motor for electrical helicopter propulsion. 2014 , 507, 032038		2
771	Electrical Machine Topologies: Hottest Topics in the Electrical Machine Research Community. 2014 , 8, 18-30		27
770	Stator Design. 2014 , 219-257		0
769	Torque density improvement of permanent-magnet vernier machines for hybrid electric vehicle. 2014 ,		
768	Analysis of exploitation cost at low power alternating current motors and optimization possibilities. 2014 ,		

767	Comparison of variable flux reluctance, switched flux and fractional slot PM12-stator slots machines having 10- and 14-rotor poles. 2014,	2
766	Aspects regarding optimal design of low power synchronous motors. 2014,	
765	Torque ripple reduction for interior permanent magnet machines using overlapping windings with fractional slot per pole pair. 2015,	2
764	MMF harmonic reduction in permanent magnet synchronous generator using different stator flux barriers for microturbine applications. 2015,	
763	Hybrid sensorless control for SPMSM With multiple saliencies. 2015,	1
762	An iterative FEA-based approach for the design of fault-tolerant IPM-FSCW machines. 2015,	2
761	Development of a compact and low cost axial flux machine using soft magnetic composite and hard ferrite. 2015,	6
760	A preliminary study of the effect of saturation and cross-magnetization on the inductances of a fractional-slot concentrated-wound interior PM synchronous machine. 2015,	7
759	Magnetic-Geared Electric Variable Transmission Systems. 2015, 367-392	1
758	Ventilation and thermal improvement of radial forced air-cooled FSCW permanent magnet synchronous wind generator. 2015,	1
757	Comparative study on concentrated-windings permanent magnet synchronous machines with different rotor structures for aircraft generator application. 2015,	1
756	Modified efficiency optimization control for fractional slot concentrated wound interior permanent magnet synchronous generators. 2015,	
755	Magnet losses and demagnetisation in a permanent magnet in-wheel electric vehicle traction motor. 2015,	3
754	Influence of parallel wire placement on the AC copper losses in electrical machines. 2015,	19
753	Fractional Slot Concentrated Windings: A New Method to Manage the Mutual Inductance between Phases in Three-Phase Electrical Machines and Multi-Star Electrical Machines. 2015, 3, 123-137	5
752	Multiobjective Design of Turbo Injection Mode for Axial Flux Motor in Plastic Injection Molding Machine by Particle Swarm Optimization. 2015, 2015, 1-11	4
751	REDUCTION OF EDDY CURRENT LOSS OF PERMANENT-MAGNET MACHINES WITH FRACTIONAL SLOT CONCENTRATED WINDINGS. 2015, 56, 39-46	
750	Thermal Model of Totally Enclosed Water-Cooled Permanent-Magnet Synchronous Machines for Electric Vehicle Application. 2015, 51, 3020-3029	43

749	Reduction of Eddy-Current Losses in Fractional-Slot Concentrated-Winding Synchronous PM Motors. 2015 , 51, 1-4	14
748	A New Software Tool for Design, Optimization, and Complete Analysis of Rotating Electrical Machines Windings. 2015 , 51, 1-10	30
747	Design of three-phase flux reversal machines with fractional-slot windings. 2015 ,	8
746	Study of Direct-Drive Permanent-Magnet Synchronous Generators With Solid Rotor Back Iron and Different Windings. 2015 , 1-1	9
745	Comparison of two FSCW PM machines for integrated traction motor/generator. 2015 ,	4
744	Winding schemes for wide constant power range of double stator transverse flux machine. 2015 ,	1
743	Analysis and design of FSCW SPM machines for a given constant power region. 2015 ,	0
742	Performance of a five-phase induction machine with single-tooth winding under open-phase conditions. 2015 ,	4
741	An analysis of the 6-slot 2-pole high-speed permanent magnet synchronous machines with tooth-coil windings. 2015 ,	1
740	Influence of on-load voltage distortion on torque-speed characteristic of interior permanent magnet machines. 2015 ,	6
739	Examination of an axial-gap generator with ferrite permanent magnets realizing miniaturization and high output power of engine generators. 2015 ,	0
738	Stator winding inter-turn short circuit faults severity detection controlled by OW-SVPWM without CMV of five-phase FTFSCW-IPM. 2015 ,	2
737	New flexible harmonic cost effective concentrated winding topology. 2015 ,	5
736	Optimization design of an interior permanent-magnet synchronous machine for a hybrid hydraulic excavator. 2015 , 16, 957-968	9
735	A new single tooth winding layout for a single-phase induction motor with segmented stator. 2015 ,	5
734	Design optimization of surface PM synchronous motors for a dynamic focus adjustment of a laser beam. 2015 ,	1
733	Impact of semi-magnetic slot key on the performance of a tooth-coil traction motor. 2015 ,	
732	A Fractional Slot Concentrated Winding (FSCW) configuration for outer rotor squirrel cage induction motors. 2015 ,	12

731	On selection of rotor support material for a ferrite magnet spoke type traction motor. 2015,	3
730	Experimental fault assessment on multiphase PM generators with fractional-slot concentrated windings. 2015,	1
729	Performance comparison of fractional slot concentrated winding spoke type synchronous motors with different slot-pole combinations. 2015,	13
728	Design considerations and parameter optimization of stator wound field synchronous machines based on magnetic the gear effect. 2015,	6
727	Axial flux machine structure reducing rotor eddy current losses. 2015,	
726	Reduction of sub-harmonic effect on the fractional slot concentrated winding interior PM machines by using spoke-type magnets. 2015,	3
725	Increasing the saliency ratio of fractional slot concentrated winding interior permanent magnet synchronous motors. 2015, 9, 439-448	22
724	Secondary Saliency Tracking-Based Sensorless Control for Concentrated Winding SPMSM. 2015, 1-1	8
723	High efficiency Shaft Generator drive system design for Ro-Ro trailer-passenger ship application. 2015,	5
722	Examination to make eddy current loss density uniform in divided Nd-Fe-B magnets of a high torque density motor with axial-gap structure. 2015,	4
721	Analysis of radial force harmonics in PMSM responsible for electromagnetic noise. 2015,	7
720	Design of high-efficiency interior permanent magnet synchronous machine with stator flux barriers and single-layer concentrated windings. 2015,	4
719	Closed-Form Solution for Axial Flux Permanent-Magnet Machines With a Traction Application Study. 2015, 1-1	5
718	Design optimization of brushless synchronous machines with wound-field excitation for hybrid electric vehicles. 2015,	5
717	FPGA control and implementation of a multiphase-interleaved PWM inverter for a segmented PMSM. 2015,	4
716	Analysis of the curved permanent magnet linear machine for a golf swing training system. 2015,	
715	Development of permanent magnet generators to integrate wind turbines into electricity transmission and distribution networks. 2015, 243-262	
714	. <i>IEEE Transactions on Industrial Electronics,</i> 2015, 1-1	8.9 18

713	Analysis of Air-Gap Field Modulation and Magnetic Gearing Effects in Switched Flux Permanent Magnet Machines. 2015 , 51, 1-12		162
712	. 2015 , 30, 285-295		10
711	Effects of Loading and Slot Harmonic on Radial Magnetic Forces in Low-Speed Permanent Magnet Machine With Concentrated Windings. 2015 , 51, 1-10		26
710	Low Space Harmonics Cancelation in Double-Layer Fractional Slot Winding Using Dual Multiphase Winding. 2015 , 51, 1-10		72
709	Design and Validation of a Synchronous Reluctance Motor With Single Tooth Windings. 2015 , 30, 795-805		28
708	Design and Performance of Electrical Propulsion System of Extended Range Electric Vehicle (EREV) Chevrolet Volt. 2015 , 51, 2479-2488		50
707	Torque Ripple Reduction of Saliency-Based Sensorless Drive Concentrated-Winding IPMSM Using Novel Flux Barrier. 2015 , 51, 2905-2916		13
706	Magnetic Model Self-Identification for PM Synchronous Machine Drives. 2015 , 51, 2246-2254		52
705	Computationally Efficient Thermal Analysis of a Low-Speed High-Thrust Linear Electric Actuator With a Three-Dimensional Thermal Network Approach. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 1410-1420	8.9	37
704	Limitations/capabilities of electric machine technologies and modeling approaches for electric motor design and analysis in plug-in electric vehicle applications. 2015 , 52, 80-99		33
703	High-Torque-Density Single Tooth-Wound Bar Conductor Permanent-Magnet Motor for Electric Two Wheeler Application. 2015 , 51, 2123-2135		10
702	Quantitative Comparison of Integral and Fractional Slot Permanent Magnet Vernier Motors. 2015 , 30, 1483-1495		46
701	A five-phase linear induction machine with planar modular winding. 2015 ,		3
700	Design Tradeoff Between Cogging Torque and Torque Ripple in Fractional Slot Surface-Mounted Permanent Magnet Machines. 2015 , 51, 1-4		25
699	Iron loss in FSPMM: 2D FEA-based comparative study between single and double-layer topologies. 2015 , 34, 61-75		1
698	Multilayer Windings Effect on Interior PM Machines for EV Applications. 2015 , 51, 2208-2215		26
697	Calculation of electromagnetic quantities of permanent magnet synchronous machines with tooth coil windings using finite elements and frozen permeabilities. 2015 , 132, 11-17		
696	The analysis of stray losses in tape wound concentrated windings of the permanent magnet synchronous motor. 2015 , 34, 766-777		5

695	Automotive Electrification: The Nonhybrid Story. 2015 , 1, 40-53		48
694	On-Load Voltage Distortion in Fractional Slot Surface-Mounted Permanent Magnet Machines Considering Local Magnetic Saturation. 2015 , 51, 1-10		17
693	Noise Analysis, Calculation, and Reduction of External Rotor Permanent-Magnet Synchronous Motor. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 6204-6212	8.9	110
692	Fractional Slot Concentrated Winding PMSM With Consequent Pole Rotor for a Low-Speed Direct Drive: Reduction of Rare Earth Permanent Magnet. 2015 , 30, 103-109		100
691	Winding Factors and Magnetic Fields in Permanent-Magnet Brushless Machines With Concentrated Windings and Modular Stator Cores. 2015 , 51, 2924-2932		15
690	Plug-in Direct-Flux Vector Control of PM Synchronous Machine Drives. 2015 , 51, 3848-3857		13
689	. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 2742-2752	8.9	25
688	Comprehensive analysis and evaluation of cogging torque in Axial Flux Permanent Magnet machines. 2015 ,		1
687	Investigation of effect of slot opening on fractional slot and integer slot axial flux permanent magnet machine. 2015 ,		1
686	A novel technique of cogging torque reduction in mass-produced surface-mounted permanent magnet motor using tooth notching pairing. 2015 ,		3
685	A Computationally Efficient PM Power Loss Mapping for Brushless AC PM Machines With Surface-Mounted PM Rotor Construction. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 7391-7401	8.9	15
684	Comparative analysis of rotor losses in high-speed permanent magnet machines with different winding configurations considering the influence of the inverter PWM. 2015 ,		8
683	The effect of magnet depth on magnet eddy current loss in 16-pole/24-slot IPM machines. 2015 ,		
682	Analysis and modeling of modular curved linear permanent magnet motor. 2015 ,		0
681	Design and tests of a four-layer fractional-slot Interior Permanent Magnet motor. 2015 ,		1
680	Design Optimization, Prototyping, and Performance Evaluation of a Low-Speed Linear Induction Motor With Toroidal Winding. 2015 , 30, 1546-1555		21
679	Comparative study of alternative modular switched flux permanent magnet machines. 2015 ,		2
678	Efficiency analysis of a 42- pole/54-slot fractional-slot concentrated-wound interior permanent magnet synchronous machine. 2015 ,		0

677	Modular Permanent-Magnet Machines With Alternate Teeth Having Tooth Tips. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 6120-6130	8.9	16
676	Analytical Synthesis of Air-Gap Field Distribution in Permanent Magnet Machines With Rotor Eccentricity by Superposition Method. 2015 , 51, 1-4		16
675	On-Load Voltage Distortion in Fractional-Slot Interior Permanent Magnet Machines. 2015 , 51, 1-9		17
674	Design for improved fault tolerance in large synchronous machines. 2015 ,		2
673	. 2015 , 30, 1460-1471		12
672	Investigation of electromagnetic torque in permanent magnet synchronous machines with fractional slot concentrated winding. 2015 ,		
671	. 2015 ,		1
670	Multiphase electrical machines and drives in the transportation electrification. 2015 ,		19
669	Unequal Teeth Widths for Torque Ripple Reduction in Permanent Magnet Synchronous Machines With Fractional-Slot Non-Overlapping Windings. 2015 , 51, 1-9		43
668	Application of Fractional-Slot Concentrated Windings to Synchronous Reluctance Motors. 2015 , 51, 1446-1455	40	
667	Electromagnetic-Thermal Coupling Analysis of Permanent Magnet Synchronous Machines for Electric Vehicle Applications Based on Improved ($\mu + 1$) Evolution Strategy. 2015 , 51, 1-10		2331
666	Modeling and Design Optimization of A Shaft-Coupled Motor and Magnetic Gear. 2016 , 5, 10		0
665	Concentrated Windings in Compact Permanent Magnet Synchronous Generators: Managing Efficiency. 2016 , 4, 2		6
664	Cogging torque reduction in axial-flux permanent magnet wind generators with yokeless and segmented armature by radially segmented and peripherally shifted magnet pieces. 2016 , 99, 95-106		12
663	Examination to enhance efficiency of V-shaped IPMSM using concentrated winding structure at high speed and high torque area. 2016 ,		1
662	Thermal conductivity evaluation of fractional-slot concentrated winding machines. 2016 ,		3
661	Influence of manufacturing tolerances on cogging torque in interior permanent magnet machines with eccentric and sinusoidal rotor contours. 2016 ,		4
660	Very low torque ripple multi-3-phase machines. 2016 ,		2

659	Five-phase SPM machine with electronic pole changing effect for marine propulsion. 2016,	3
658	The nature of the torque ripple in fractional-slot synchronous PMAREL machines. 2016,	3
657	A simple design method for surface-mounted PM machines for traction application. 2016,	1
656	Sensitivity of manufacturing tolerances on cogging torque in interior permanent magnet machines with different slot/pole number. 2016,	3
655	Electromagnetic vibration and noise analysis of permanent magnet synchronous motor with different slot-pole combinations. 2016, 10, 900-908	53
654	Inter-turns fault diagnosis for surface permanent magnet based marine propulsion motors. 2016,	1
653	. 2016,	0
652	MMF harmonic analysis of polyphase windings based on the closed-form analytical equation. 2016,	1
651	Multiphase permanent magnet synchronous motors with fractional slot windings. 2016, 35, 1937-1948	6
650	Multiphase electrical machines and drives: A viable solution for energy generation and transportation electrification. 2016,	37
649	Voltage balance and harmonic reduction for axial field permanent magnet synchronous generator with concentrated winding. 2016,	1
648	Analytical model of tooth-coil winding permanent magnet synchronous machines with modular U-Shape stator. 2016,	3
647	On winding design of a high performance ferrite motor for traction application. 2016,	5
646	Development of High Torque Low Speed Fractional-Slot Concentrated Windings PMSM for Traction Application. 2016,	0
645	Power and voltage control of a nonpitchable direct driven fractional slot concentrated wound-IPMSG based wind turbine operating above base speed. 2016,	0
644	Research on rotor magnet loss in fractional-slot concentrated-windings permanent magnet motor. 2016,	
643	Iron Loss in Surface-Mounted PM Machines Considering Tooth-Tip Local Magnetic Saturation. 2016,	3
642	. 2016,	7

641	Rotor Eddy-Current Losses Reduction in an Axial Flux Permanent-Magnet Machine. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 1-1	8.9	24
640	Reduction of On-Load Terminal Voltage Distortion in Fractional Slot Interior Permanent Magnet Machines. 2016 , 31, 1161-1169		8
639	Comparison of Two Different IPM Traction Machines With Concentrated Winding. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 4137-4149	8.9	21
638	An Investigation of Zeroth-Order Radial Magnetic Forces in Low-Speed Surface-Mounted Permanent Magnet Machines. 2016 , 52, 1-6		18
637	. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 4663-4673	8.9	30
636	. 2016 , 31, 860-871		41
635	General formulation of winding factor for fractional-slot concentrated winding design. 2016 , 10, 231-239		36
634	Study on the flux-weakening capability of permanent magnet synchronous motor for electric vehicle. 2016 , 38, 115-120		8
633	Novel Consequent-Pole Hybrid Excited Machine With Separated Excitation Stator. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 1-1	8.9	71
632	A Novel Methodology for Optimal Design of Fractional Slot With Concentrated Windings. 2016 , 31, 1153-1160		27
631	An Exact Method for the Determination of Differential Leakage Factors in Electrical Machines With Non-Symmetrical Windings. 2016 , 52, 1-9		13
630	Overview of PM/Reluctance Synchronous Machine Opportunities and Challenges. 2016 , 1-26		0
629	Synchronous Reluctance and PM Assisted Reluctance Motors. 2016 , 27-57		1
628	. 2016 , 52, 3041-3049		21
627	Synchronous reluctance machine with integer-slot double-layer concentrated winding for wind energy applications. 2016 ,		2
626	Maximum Torque Per Ampere strategy for a biharmonic five-phase synchronous machine. 2016 ,		4
625	Performance Analysis of Interior Permanent Magnet Motor Using Overlapping Windings With Fractional Ratio of Slot to Pole Pair. 2016 , 26, 1-5		15
624	PM brushless motors comparison for a Fenestron [®] type helicopter tail rotor. 2016 ,		8

623	Modeling and Analysis of Electromagnetic Force, Vibration, and Noise in Permanent-Magnet Synchronous Motor Considering Current Harmonics. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 7455-7466	8.9	108
622	Application of Phase Shifting Technique for Reducing the Magnetomotive Force Space Harmonics of Tooth Concentrated Windings. 2016 , 44, 1707-1720		4
621	Application of stator shifting to five-phase fractional-slot concentrated winding interior permanent magnet synchronous machine. 2016 , 10, 681-690		13
620	Current-based inter-turn short circuit fault modeling in permanent magnet synchronous machine using magnetic equivalent circuit model. 2016 ,		7
619	Radial pressure analysis in PMSM responsible for electromagnetic noise. 2016 ,		
618	High-Speed Solid Rotor Permanent Magnet Machines: Concept and Design. 2016 , 2, 391-400		39
617	Maximisation of back EMF in a high performance PMSM machine with concentrated windings. 2016 ,		0
616	A novel multi-n-phase machine model. 2016 ,		2
615	Influence of slot opening and flux gaps on the voltage distortion in SPM machines. 2016 ,		2
614	PM brushless motor design for helicopter tail rotor. 2016 ,		3
613	Growing role of electrical machines and drives in electrification. 2016 ,		2
612	Analysis and study of flux weakening performance in fault-tolerant permanent magnet machine. 2016 ,		1
611	Design and thermal analysis on high torque low speed fractional-slot concentrated windings in-wheel traction motor. 2016 ,		4
610	On-load performance of fractional slot SPM machines considering tooth-tip local magnetic saturation. 2016 ,		1
609	Cogging torque and torque ripple reduction of modular permanent magnet machines. 2016 ,		1
608	Fractional-slot PM assisted reluctance motors: Configuration comparison and optimization. 2016 ,		
607	. 2016 ,		16
606	Iron saturation impact on high frequency sensorless control of synchronous permanent magnets motor. 2016 ,		6

605	Low Space Order Analysis of Radial Pressure in SPMSM With Analytical and Convolution Approaches. 2016 , 52, 1-7		5
604	Influence of local magnetic saturation on iron losses in interior permanent magnet machines. 2016 ,		1
603	Performances comparison of different concentrated-winding configurations for 5-phase PMSG in normal and faulty modes in flux weakening operation for fixed pitch tidal turbines. 2016 ,		1
602	Influence of magnetization on performance of SPM machine with 3rd harmonic injected rotor. 2016 ,		
601	Voltage distribution in inorganic insulation windings for high-temperature motors. 2016 , 35, 2074-2086		2
600	Thrust ripple reduction according to coil arrangement in PMLSM with double secondary side. 2016 ,		1
599	Analysis of the impact of the design of HT machines on the cogging torque and losses in permanent magnets. 2016 ,		2
598	Analysis and Control of Complementary Magnetic-Geared Dual-Rotor Motor. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 6715-6725	8.9	33
597	Torque investigation of fractional-slot permanent magnet machines with different winding topology and stator structures. 2016 ,		1
596	Effectiveness of Terminal Voltage Distortion Minimization Methods in Fractional Slot Surface-Mounted Permanent Magnet Machines Considering Local Magnetic Saturation. 2016 , 31, 1090-1099		3
595	Comparative study of voltage distortion in fractional-slot PM machines having different winding and stator configurations. 2016 ,		1
594	Influence of Third Harmonic Back EMF on Modeling and Remediation of Winding Short Circuit in a Multiphase PM Machine With FSCWs. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 6031-6041	8.9	24
593	Fault Tolerant Design of Fractional Slot Winding Permanent Magnet Aerospace Actuator. 2016 , 2, 380-390		28
592	Effect of Multilayer Windings With Different Stator Winding Connections on Interior PM Machines for EV Applications. 2016 , 52, 1-7		52
591	A Six-Phase 24-Slot/10-Pole Permanent-Magnet Machine With Low Space Harmonics for Electric Vehicle Applications. 2016 , 52, 1-10		30
590	Reduction of Eddy-Current Losses in Fractional-Slot Concentrated-Winding Synchronous PM Machines. 2016 , 52, 1-4		38
589	An Improved Sideband Current Harmonic Model of Interior PMSM Drive by Considering Magnetic Saturation and Cross-Coupling Effects. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 4097-4104	8.9	29
588	Interturn Fault Diagnosis Strategy for Interior Permanent-Magnet Synchronous Motor of Electric Vehicles Based on Digital Signal Processor. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 1694-1706	8.9	49

587	Comparative Analysis of Partitioned Stator Flux Reversal PM Machines Having Fractional-Slot Nonoverlapping and Integer-Slot Overlapping Windings. 2016 , 31, 776-788		18
586	Design and Tests of a Four-Layer Fractional-Slot Interior Permanent-Magnet Motor. 2016 , 52, 2234-2240		13
585	Performance of a Sensorless Controlled Concentrated-Wound Interior Permanent-Magnet Synchronous Machine at Low and Zero Speed. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 2016-2026	8.9	23
584	. 2016 , 52, 2224-2233		14
583	Electromagnetic Performance of Stator Slot Permanent Magnet Machines With/Without Stator Tooth-Tips and Having Single/Double Layer Windings. 2016 , 52, 1-10		13
582	Feasibility Study of a Superconducting DC Direct-Drive Wind Generator. 2016 , 1-1		10
581	Superposition Method for Cogging Torque Prediction in Permanent Magnet Machines With Rotor Eccentricity. 2016 , 52, 1-10		18
580	A five-phase 20-slot/18-pole PMSM for electric vehicles. 2016 , 35, 439-455		8
579	Comparison of Partitioned Stator Switched Flux Permanent Magnet Machines Having Single- or Double-Layer Windings. 2016 , 52, 1-10		16
578	Development of a 20-Pole/4-Slot SPMSM With Consequent Pole Rotor for In-Wheel Direct Drive. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 302-309	8.9	96
577	A Partitioned Stator Variable Flux Reluctance Machine. 2016 , 31, 78-92		27
576	Noise Prediction and Sound Quality Analysis of Variable-Speed Permanent Magnet Synchronous Motor. 2017 , 32, 698-706		30
575	Thermal Conductivity Evaluation of Fractional-Slot Concentrated-Winding Machines. 2017 , 53, 2059-2065		32
574	Analytical calculation of armature-reaction field in surface-mounted permanent-magnet machines accounting for slots in stator and rotor. 2017 , 53, 591-604		2
573	. 2017 , 53, 1-4		31
572	Review on signal-by-wire and power-by-wire actuation for more electric aircraft. 2017 , 30, 857-870		56
571	Influence of Manufacturing Tolerances on Cogging Torque in Interior Permanent Magnet Machines with Eccentric and Sinusoidal Rotor Contours. 2017 , 53, 3568-3578		21
570	Analysis of Torque Production in Variable Flux Reluctance Machines. 2017 , 32, 1297-1308		40

569	Cogging Torque and Unbalanced Magnetic Force Prediction in PM Machines With Axial-Varying Eccentricity by Superposition Method. 2017 , 53, 1-4		8
568	. 2017 ,		5
567	Sensitivity of Manufacturing Tolerances on Cogging Torque in Interior Permanent Magnet Machines With Different Slot/Pole Number Combinations. 2017 , 53, 3557-3567		25
566	Design Considerations of Stator DC-Winding Excited Vernier Reluctance Machines Based on the Magnetic Gear Effect. 2017 , 53, 1028-1037		15
565	Nonlinear Dynamic Model of PMBLDC Motor Considering Core Losses. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 9282-9290	8.9	11
564	Analysis of Winding Configurations and Slot-Pole Combinations in Fractional-Slots Resolvers. 2017 , 17, 4420-4428		24
563	Optimization of Low-Power Brushless PM-Machines for Automotive Applications With Focus on High-Volume Mass Production. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 9767-9775	8.9	21
562	Comparative analysis of the three- and six-phase fractional slot concentrated winding permanent magnet machines. 2017 , 36, 811-823		4
561	Ventilation and Thermal Improvement of Radial Forced Air-Cooled FSCW Permanent Magnet Synchronous Wind Generators. 2017 , 53, 3447-3456		24
560	A Large-Scale Superconducting DC Wind Generator Considering Concentrated/Distributed Armature Winding. 2017 , 27, 1-5		8
559	Direct torque and flux control of a fractional-slot concentrated-winding IPMSM in deep flux-weakening region. 2017 ,		1
558	Comparative analysis of cogging torque reduction methods of variable flux reluctance machines for electric vehicles. 2017 ,		0
557	Modeling of alternating current motors and reference frame theory. 2017 , 153-202		3
556	Series-connected multi-half-bridge modules converter for integrating multi-megawatt wind multi-phase permanent magnet synchronous generator with dc grid. 2017 , 11, 981-990		4
555	Design by optimisation of a buried PM variable-flux wind generator for grid connection. 2017 ,		
554	Thermal management and cooling of windings in electrical machines for electric vehicle and traction application. 2017 ,		5
553	Investigation of electromagnetic noise on pole and slot number combinations with possible fractional-slot concentrated windings. 2017 ,		1
552	Analytical solution of electromagnetic noise caused by radial force and torque variation in fractional-slot PM motors with all teeth wound. 2017 ,		

551	Synchronous motors for traction applications. 2017,	7
550	Iron Saturation Impact on High-Frequency Sensorless Control of Synchronous Permanent-Magnet Motor. 2017, 53, 5470-5478	18
549	High temperature motors: Investigations on the voltage distribution in windings at a short scale times for a PWM supply. 2017,	5
548	Effect of circumferential segmentation of permanent magnets on rotor loss in fractional-slot concentrated-winding machines. 2017, 11, 1151-1159	16
547	Verification of a novel voltage control strategy for MTPV control of a fractional-slot concentrated-winding IPMSM. 2017,	1
546	Windings with various numbers of turns per phasor. 2017,	5
545	Modelling of a 6 slot 4 pole single tooth wound synchronous reluctance motor. 2017,	
544	Leakage inductance of a prototyped single tooth wound synchronous reluctance motor. 2017,	0
543	Comparative thermal analysis of IPMSMs with integral-slot distributed-winding (ISDW) and fractional-slot concentrated-winding (FSCW) for electric vehicle application. 2017,	2
542	. 2017,	3
541	. <i>IEEE Transactions on Industrial Electronics</i> , 2017, 1-1	8.9 24
540	Eddy current losses in permanent magnets of surface mounted permanent magnet synchronous machinesAnalytical calculation and high order finite element analyses. 2017, 134, 148-155	2
539	Analytical Calculation and Optimization of Magnetic Field in Spoke-Type Permanent-Magnet Machines Accounting for Eccentric Pole-Arc Shape. 2017, 53, 1-7	6
538	Reduction in distortion of the synchronous generator voltage waveform using a new winding pattern. 2017, 11, 233-241	7
537	. 2017, 53, 1-12	23
536	Stator Winding Interturn Short-Circuit Faults Severity Detection Controlled by OW-SVPWM Without CMV of a Five-Phase FTFSCW-IPM. 2017, 53, 194-202	21
535	Hybrid Stator Design of Fault-Tolerant Permanent-Magnet Vernier Machines for Direct-Drive Applications. <i>IEEE Transactions on Industrial Electronics</i> , 2017, 64, 179-190	8.9 60
534	A Novel Flux-Switching Permanent Magnet Machine With Overlapping Windings. 2017, 32, 172-183	32

533	. 2017,	3
532	Comparative study of magnetic gearing effect in integral slot, fractional slot winding and vernier PM machines. 2017,	4
531	Interior permanent magnet synchronous machine (IPMSM) design for environment friendly hybrid electric vehicle (HEV) applications. 2017,	0
530	Reduced lumped parameter thermal model for external rotor permanent magnet motor design. 2017,	3
529	Synchronous reluctance motor with concentrated windings for IE4 efficiency. 2017,	6
528	Design and prototyping of 3-phase BLDC motor. 2017,	13
527	Calculation and analysis of magnetic force and vibration in low-speed surface-mounted permanent magnet machines accounting for eccentric and concentric magnet poles. 2017, 56, 91-102	
526	A highly integrated electric drive system for tomorrow's EVs and HEVs. 2017,	1
525	Eddy current losses in the permanent magnets of synchronous machines [Comparison of planar and cylindrical. Arrangements with various pole coverages. 2017,	
524	A design of fractional-slot concentrated winding IPM synchronous motor for electric vehicles. 2017,	
523	Fractional-slot winding pattern for pole-phase modulated multiphase multi-speed induction motor drives. 2017,	4
522	A semi-flooded cooling for a high speed machine: Concept, design and practice of an oil sleeve. 2017,	10
521	Concentrated versus distributed winding in permanent magnet synchronous motors. 2017,	1
520	Performance and manufacturability tradeoffs of different electrical machine designs. 2017,	3
519	Parameter matching method for single-mode modular cascade machines systems. 2017,	
518	A New Concept of PTI/PTO for Marine Applications. 2017,	1
517	Electromagnetic performance analysis of PMSM with eccentric consequent pole rotor. 2017,	8
516	Effect of AC losses on temperature rise distribution in concentrated windings of permanent magnet synchronous machines with parallel strands. 2017,	10

515	Electromagnetic performance comparison of 18-slot/26-pole and 18-slot/10-pole fractional slot permanent magnet surface-mounted machines. 2017,	2
514	Rotor design and optimizations for interior permanent magnet machines in motorized spindle application. 2017,	1
513	PM brushless motor for helicopters electric tail rotor drive system. 2017,	5
512	Tradeoffs in high-speed performance characteristics in optimization of saliency ratio and efficiency for designing FSCW IPM machines. 2017,	
511	Analysis of electromagnetic phenomena in the two-winding permanent magnet synchronous generator. 2017,	
510	Review of fault diagnosis of PMSM drive system in electric vehicles. 2017,	10
509	A Systematic Approach for Developing Electric Machine Windings with Suppressed MMF Space Harmonics. 2017, 45, 2327-2338	5
508	Multiobjective design of permanent magnet synchronous machines based on analytical sub-domain particle swarm optimization. 2017,	5
507	Novel fault-tolerant stator structure for modular PMSMs with fractional-slot overlapping winding. 2017,	1
506	Design of novel modular-spoke-type permanent magnet machines. 2017,	1
505	Integrated Design of Motor Drives Using Random Heuristic Optimization for Aerospace Applications. 2017,	1
504	Torque Distribution Characteristics of a Novel Double-Stator Permanent Magnet Generator Integrated with a Magnetic Gear. 2017, 10, 2	18
503	Limitations and Constraints of Eddy-Current Loss Models for Interior Permanent-Magnet Motors with Fractional-Slot Concentrated Windings. 2017, 10, 379	4
502	Design of a PM Vernier Machine with Consideration for Modulation Flux and Comparison with Conventional PM motors. 2017, 10, 1819	8
501	Optimal design of a multi-phase double-stator bearingless brushless direct current motor. 2017, 9, 168781401370511	
500	Comparison of permanent magnet synchronous machines with concentrated windings and different rotor configurations. 2017,	2
499	Performance Analysis of Concentrated Wound-Rotor Resolver for Its Applications in High Pole Number Permanent Magnet Motors. 2017, 17, 7877-7885	34
498	Magnet eddy current loss reduction in a 3-slot 2-pole permanent magnet machine. 2017,	5

497	Foil conductor concentrated coil windings for modular permanent magnet AC machines. 2017 ,		1
496	Adaptation of an airliner motor to a 540V network. 2017 ,		
495	A novel control strategy of hybrid excited flux-switching machine in both constant torque and power range. 2017 ,		2
494	Design and analysis of stator modular integrated motor propulsor. 2017 ,		
493	Structures of Low Speed Doubly Salient Permanent Magnet Machine. 2017 ,		2
492	Power Characteristics Analysis of a Novel Double-Stator Magnetic Geared Permanent Magnet Generator. 2017 , 10, 2048		2
491	Influence of stator/rotor-pole combination on electromagnetic performance in all/alternate poles wound partitioned stator doubly salient permanent magnet machines. 2017 , 2017, 237-245		0
490	Performance Evaluation of an On-Board Integrated Battery Charger System Using a 12-Slot/10-Pole Surface-Mounted PM Propulsion Motor. 2017 ,		2
489	. 2018 , 33, 1547-1556		15
488	Star and Delta Hybrid Connection of a FSCW PM Machine for Low Space Harmonics. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 9266-9279	8.9	35
487	Design of Optimal Winding Layouts for Multiphase Fractional-Slot Concentrated-Wound Permanent Magnet Machines. 2018 , 61-94		
486	Interior permanent magnet motor-based isolated on-board integrated battery charger for electric vehicles. 2018 , 12, 124-134		20
485	Low harmonic design and magnetic equivalent circuit modeling of fractional-slot concentrated-windings permanent-magnet machines. 2018 , 56, 357-372		
484	On the Influence of Increased Stator Leakage Inductance in Single-Tooth Wound Synchronous Reluctance Motors. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 4475-4482	8.9	15
483	Design of Optimal Winding Configurations for Symmetrical Multiphase Concentrated-Wound Surface-Mount PMSMs to Achieve Maximum Torque Density Under Current Harmonic Injection. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 1751-1761	8.9	18
482	Investigation and design of an axial flux permanent magnet machine for a commercial midsize aircraft electric taxiing system. 2018 , 8, 52-60		12
481	. 2018 , 33, 40-48		8
480	Investigation on synchronous reluctance machines with different rotor topologies and winding configurations. 2018 , 12, 45-53		16

479	Synthesis of Hybrid Magnet Memory Machines Having Separate Stators for Traction Applications. 2018 , 67, 183-195		15
478	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
477	Comparative Study of Hybrid PM Memory Machines Having Single- and Dual-Stator Configurations. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 9168-9178	8.9	24
476	Analysis and Minimization of Detent End Force in Linear Permanent Magnet Synchronous Machines. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 2475-2486	8.9	39
475	. 2018 ,		0
474	Overview of novel magnetically geared machines with partitioned stators. 2018 , 12, 595-604		34
473	Real-time gating signal generation and performance analysis for fully controlled five-phase, ten-pulse, line-commutated rectifier. 2018 , 11, 744-754		0
472	Importance of Accurate Iron Permeability in Saturated Condition on Performance Evaluation of Flux-Switching Permanent Magnet Synchronous Machines. 2018 , 54, 1-7		3
471	Influence of Stator Topologies on Average Torque and Torque Ripple of Fractional-Slot SPM Machines With Fully Closed Slots. 2018 , 54, 2151-2164		12
470	Framework and Solution Techniques for Suppressing Electric Machine Winding MMF Space Harmonics by Varying Slot Distribution and Coil Turns. 2018 , 54, 1-12		17
469	Design to Reduce Rotor Losses in Fault-Tolerant Permanent-Magnet Machines. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 8476-8487	8.9	22
468	Design and Performance Comparison of Fractional Slot Concentrated Winding Spoke Type Synchronous Motors With Different Slot-Pole Combinations. 2018 , 54, 2276-2284		60
467	Model-Based Hysteresis Loss Assessment in PMSMs With Ferrite Magnets. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 179-188	8.9	9
466	Investigation of Magnetic Field Interharmonics and Sideband Vibration in the FSCW IPMSM Drive With the SPWM Technique. 2018 , 33, 3315-3324		12
465	Axial Force and Vibroacoustic Analysis of External-Rotor Axial-Flux Motors. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 2018-2030	8.9	33
464	A Quadratic-Programming Approach to the Design Optimization of Fractional-Slot Concentrated Windings for Surface Permanent-Magnet Machines. 2018 , 33, 442-452		19
463	Analytical Modeling and Optimization for Electromagnetic Performances of Fractional-Slot PM Brushless Machines. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 4017-4027	8.9	25
462	Design and Analysis of a Flux Reversal Machine With Evenly Distributed Permanent Magnets. 2018 , 54, 172-183		26

461	The method for reducing intrinsic shaft voltage by suitable selection of pole-arc coefficient in fractional slot permanent magnet synchronous machines. 2018,	2
460	Advancements in Electrical Machines Design Brought by the Modular Construction. 2018,	4
459	A Novel Modular 18-Slot 10-Pole PMSM with 9-Phase Unequal-Coil-Pitch Fractional-Slot Winding. 2018,	
458	Air Gap Flux Density Analytical Model for a Fractional-Slot Concentrated-Winding SM-PMSM. 2018,	3
457	Analysis of Field Modulation Effect in Consequent Pole Permanent Magnet Machines with Concentrated Windings. 2018,	1
456	Conformal Mapping Based Investigation of Torque Density and Ripple in SPM Motors. 2018,	
455	Using Intentional Magnetic Saturation for HFI Based Self-Sensing with SPMSMs. 2018,	2
454	About Accuracy and Influence of the Pole Coverage for Eddy Current Losses within Permanent Magnets of Electrical Machines. 2018,	0
453	Comparison of Dual-stator 6/4 FSPM Machine with Overlapping and Non-Overlapping Winding. 2018,	2
452	Improved Analytical Model of Electromagnetic Torque for Permanent Magnet Synchronous Machines. 2018,	
451	Analysis of Six-Phase Induction Motor with Distributed and Concentrated Windings by Using the Winding Function Method. 2018,	4
450	Position Sensorless Control of an Interior Permanent Magnet Synchronous Machine (IPMSM) in Deep Flux-weakening Region. 2018,	2
449	Permanent Magnet-Assisted Synchronous Reluctance Motor Employing a Hybrid Star-Delta Winding for High Speed Applications. 2018,	2
448	Analysis of Different Arrangements of Flux Barriers and Different Pole Pairs in a Stator with Concentrated Winding. 2018,	1
447	Fast Rotor Loss Calculations in Fractional-Slot Permanent Magnet Machines. 2018,	
446	Comparison of Rotor Eddy Current Losses in Fractional-Slot Concentrated-Winding IPM machines with Different Rotor Topology. 2018,	
445	Trade Studies for a Manganese Bismuth based Surface Permanent Magnet Machine. 2018,	1
444	Comprehensive design and analysis of a PMSynRM for washing machine applications. 2018, 12, 1311-1319	8

443	Improved Angle Estimation for PM Synchronous Machines with Non Sinusoidal Saliency. 2018,	1
442	Analytical Electromagnetic Sizing of Inner Rotor Brushless PM Machines Based on Split Ratio Optimization. 2018,	2
441	The Influence of Strands and Bundle-Level Arrangements of Magnet Wires on AC Losses in the Winding of High Speed Traction Machine. 2018,	6
440	Harmonic Analysis of Magnetic Field in Fractional-Slot IPMSM with Segment Permanent Magnets. 2018,	
439	Electromagnetic Analysis of a Novel PMSM with Modular Stator for Low Power Generation. 2018,	1
438	Analysis and Design of Distributed and Concentrated IPMSM for Compressor in Electric Vehicles. 2018,	
437	Magnetic Circuit Segmentation Effect on a Permanent Magnet Fractional Slot Synchronous Generator. 2018,	
436	A Combined 2-D Analytical and Lumped-Parameter Thermal Model for High Power Density Permanent Magnet Machines with Concentrated Windings. 2018,	3
435	Method to Minimize Space Harmonics of Fractional Slot Concentrated Windings in AC Machines. 2018,	3
434	A Nine-phase Six-Terminal Fractional-Slot-Winding for Interior Permanent-Magnet Machines with Low Space Harmonics. 2018,	1
433	Comparison of the Reluctance and Permanent Magnet Synchronous Machine operating at High Temperatures. 2018,	0
432	Pole-Slot Selection Considerations for Double Layer Three-phase Tooth-Coil Wound Electrical Machines. 2018,	8
431	Additive Manufacturing of Shaped Profile Windings for Minimal AC Loss in Electrical Machines. 2018,	16
430	Design and Optimization of a Permanent Magnet Synchronous Machine for Low Vibration and Noise Applications. 2018,	3
429	Curvature Effects on Permanent Magnet Harmonic Losses of Surface-Mounted Permanent Magnet Machines. 2018,	
428	A Study on Iron Loss Decomposition with respect to Space Harmonics in a Slit Stator Motor. 2018,	
427	Analytical Technique for Analysis and Detection of Eccentricity Fault in Surface-Mounted Permanent Magnet Generators Using No-Load Voltage Signature. 2018, 46, 957-973	
426	A Fast and Accurate Analytical Tool to Study the Winding Function. 2018,	1

425	Self-Commissioning Identification of Permanent Magnet Flux-Linkage Magnitude in Sensorless Drives for PMSM at Quasi Stand-Still. 2018 ,	3
424	Design an Analysis of a Water-Cooled Axial Flux Permanent-Magnet Machine for Large Power Direct-Driven Applications. 2018 ,	2
423	Design of Low Power Motors with a Good Compromise Between Ripple Torque and Radial Forces. 2018 ,	2
422	Design of a 7-Phase Surface-Mounted PM Machine with Tooth-Concentrated Winding. 2018 ,	1
421	Electromagnetic design and performance analysis of a two-phase AFPM BLDC motor for the only-pull drive technique. 2018 , 12, 999-1005	5
420	Fractional Slot Windings with a Coil Span of Two Slots and Less Content of Low Order Harmonics. 2018 ,	2
419	Low power electrical motors design with a good compromise between ripple torque and radial forces. 2018 ,	1
418	Reduction of vibration and acoustic noise in permanent magnet synchronous motor by optimizing magnetic forces. 2018 , 429, 193-205	27
417	Design Considerations of Novel Modular-Spoke-Type Permanent Magnet Machines. 2018 , 54, 4236-4245	16
416	Design of wind power generators: Summary and comparison. 2018 ,	2
415	Large electric machines for aircraft electric propulsion. 2018 , 12, 767-779	61
414	Design and direct liquid cooling of tooth-coil windings. 2018 , 100, 2299-2308	23
413	Suppression of Even-Order Harmonics and Torque Ripple in Outer Rotor Consequent-Pole PM Machine by Multilayer Winding. 2018 , 54, 1-5	27
412	A General Mathematical Formulation for the Determination of Differential Leakage Factors in Electrical Machines With Symmetrical and Asymmetrical Full or Dead-Coil Multiphase Windings. 2018 , 54, 5930-5940	8
411	PWM Carrier Displacement in Multi-N-Phase Drives: An Additional Degree of Freedom to Reduce the DC-Link Stress. 2018 , 11, 443	5
410	Permanent Magnet Synchronous Motor with Different Rotor Structures for Traction Motor in High Speed Trains. 2018 , 11, 1549	21
409	Three-phase current injection method for mitigating turn-to-turn short-circuit fault in concentrated-winding permanent magnet aircraft starter generator. 2018 , 12, 566-574	23
408	A new method for characterization of small capacity wind turbines with permanent magnet synchronous generator: An experimental study. 2018 , 4, e00732	8

407	Stator Slitting of 12-Slot 10-Pole Concentrated Winding Motors. 2018 , 54, 4377-4385		10
406	Torque Improvement and Cost Reduction of Permanent Magnet Machines With a Dovetailed Consequent-Pole Rotor. 2018 , 33, 1628-1640		29
405	The Method for Reducing Intrinsic Shaft Voltage by Suitable Selection of Pole-Arc Coefficient in Fractional-Slot Permanent-Magnet Synchronous Machines. 2018 , 54, 1-5		1
404	Improved Winding Proposal for Wound Rotor Resolver Using Genetic Algorithm and Winding Function Approach. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 1325-1334	8.9	34
403	Comparative Study of Sideband Electromagnetic Force in Internal and External Rotor PMSMs With SVPWM Technique. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 956-966	8.9	22
402	Elimination of Even-Order Harmonics and Unipolar Leakage Flux in Consequent-Pole PM Machines by Employing N-S-Iron β -N-Iron Rotor. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 1736-1747	8.9	35
401	Modulation Effect of Slotted Structure on Vibration Response in Electrical Machines. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 2998-3007	8.9	38
400	Investigation of winding MMF harmonic reduction methods in IPM machines equipped with FSCWs. 2019 , 29, e2688		2
399	Optimal Three-Dimensional Current Computation Flux Weakening Control Strategy for DC-Biased Vernier Reluctance Machines Considering Inductance Nonlinearity. 2019 , 34, 1560-1571		9
398	Maximum Ratio of Torque to Copper Loss Control for Hybrid Excited Flux-Switching Machine in Whole Speed Range. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 932-943	8.9	5
397	Design and Analysis of a Magnetic-Field Modulated Brushless Double-Rotor Machine Part II: Winding Configuration. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 2550-2560	8.9	8
396	Design Considerations of Five-Phase Machine With Double p/3p Polarity. 2019 , 34, 12-24		17
395	Comparative Studies of Fractional/Integer-Slot Consequent Pole Permanent Magnet Machines. 2019 ,		3
394	Multiphysics Design and Optimization for a SPM Machine with MnBi Magnet and 6.5% Silicon Steel Materials for Traction Applications. 2019 ,		
393	Space Harmonics Elimination for Fractional-Slot Windings With Two-Slot Coil Pitch. 2019 , 7, 106961-106972		11
392	Saliency based Self-Sensing Enhanced Operating Condition Monitoring Using High-Frequency Injection Under Intentional Magnetic Saturation. 2019 ,		4
391	An equivalent winding factor larger than 1 by using flux barriers in the stator. 2019 ,		1
390	A Novel DC-Biased Current Dual PM Vernier Machine. 2019 ,		2

389	Design and Validation of a Partial-Assist Knee Orthosis with Compact, Backdrivable Actuation. 2019 , 2019, 917-924	15
388	Multiobjective Design Optimization of Generalized Multilayer Multiphase AC Winding. 2019 , 34, 2158-2167	11
387	Hybrid PWM noise cancellation technique to reduce switching losses for two-segment three-phase motor. 2019 , 12, 2128-2134	2
386	Comparison and Design Optimization of a Five-Phase Flux-Switching PM Machine for In-Wheel Traction Applications. 2019 , 34, 1805-1817	19
385	Winding arrangement and design development for fault tolerant EPS systems. 2019 , 2019, 3884-3889	0
384	Design of Interior Permanent-Magnet Machines with Novel Semi-Overlapping Windings. 2019 ,	1
383	Design, Analysis, and Prototyping of a Water-Cooled Axial-Flux Permanent-Magnet Machine for Large-Power Direct-Driven Applications. 2019 , 55, 3555-3565	13
382	Analytical Model of Torque-Prediction for a Novel Hybrid Rotor Permanent Magnet Machines. 2019 , 7, 109528-109538	7
381	Analysis of Reluctance Torque in Interior Permanent Magnet Synchronous Machines With Fractional Slot Concentrated Windings. 2019 ,	6
380	Design and Analysis of a Five-Phase Fault-Tolerant Permanent Magnet Synchronous Motor for Aerospace Starter-Generator System. 2019 , 7, 135040-135049	14
379	Operation Principle and Torque Component Quantification of Short-Pitched Flux-Bidirectional-Modulation Machine. 2019 , 7, 136676-136685	8
378	Influence of Various Magnetic Pole on Electromagnetic Performance of Consequent-Pole Permanent Magnet Machine. 2019 , 7, 121853-121862	3
377	Influence of Magnet Imperfection on Torque Ripple in SPM Machine Having Double and Single Layer Windings. 2019 ,	1
376	Evaluation of Fractional Slot Concentrated Winding Permanent Magnet Synchronous Machine for Electric Vehicle Application. 2019 ,	1
375	Investigation of Doubly Salient Structure for Permanent Magnet Vernier Machines Using Flux Modulation Effects. 2019 , 34, 2019-2028	13
374	Investigation Into Multi-Layer Fractional-Slot Concentrated Windings With Unconventional Slot-Pole Combinations. 2019 , 34, 1985-1996	17
373	Comparative Study of Winding Configurations of a Five-Phase Flux-Switching PM Machine. 2019 , 34, 1792-1804	10
372	A New Traction Motor System With Integrated-Gear: A Solution for Off-Road Machinery. 2019 , 7, 113740-113750	

371	Inductance Characteristic Analysis of Consequent-Pole Permanent Magnet In-Wheel Motor. 2019 , 7, 90507-90516	2
370	Two Phase Dual-Stator Axial-Flux PM BLDC Motor With Ironless Rotor Using Only-Pull Drive Technique. 2019 , 7, 82144-82153	2
369	A Novel Fault Tolerant Machine With Integral Slot Non-Overlapping Concentrated Winding. 2019 , 7, 99462-99469	4
368	Torque Pulsation Reduction in Fractional-Slot Concentrated-Windings IPM Motors by Lowering Sub-Harmonics. 2019 , 34, 2084-2095	11
367	Quantitative Comparison between SPM Machine and Consequent Pole PM Machines with Different Rotor Topologies. 2019 ,	2
366	Concept of a Small Permanent Magnet Motor with External Spur Gear Rotor and High Torque Density. 2019 ,	
365	Numerical Calculation of End-Coils Leakage Inductance for Concentrated and Hairpin Windings. 2019 ,	0
364	Novel 24-slots14-poles fractional-slot concentrated winding topology with low-space harmonics for electrical machine. 2019 , 2019, 3784-3788	5
363	Reduction of Open-Circuit DC Winding Induced Voltage in Hybrid-Excited Switched -Flux Permanent Magnet Machine. 2019 ,	2
362	Analytical Based Enhancement of the Torque Production Capability of Flux Switching PM Machines. 2019 ,	
361	Comparison of optimal slot/pole number combinations in fractional slot permanent magnet synchronous machines having similar slot and pole numbers. 2019 , 2019, 4585-4589	4
360	Comparison of the reluctance laminated and solid rotor synchronous machine operating at high temperatures. 2019 , 38, 1111-1119	3
359	Analysis of power factor in variable flux reluctance machines with MMF-permeance model. 2019 , 13, 614-624	0
358	A Subdomain Model for Open-Circuit Field Prediction in Dual-Stator Consequent-Pole Permanent Magnet Machines. 2019 , 55, 1-12	9
357	Novel Modular Fractional Slot Permanent Magnet Machines With Redundant Teeth. 2019 , 55, 1-10	10
356	Torque distribution strategy for modular cascade machines used in EVs. 2019 , 14, 924-932	
355	Fluid flow analysis of composite material-based wind turbine blades using Ansys. 2019 , 1-4	30
354	. 2019 , 7, 52650-52658	6

353	Design of a wind turbine generator for rural applications. 2019 , 13, 379-384	1
352	Multi-objective Optimization of an Outer Rotor BLDC Motor Based on Taguchi Method for Propulsion Applications. 2019 ,	6
351	Advanced optimization methods for fractional slot concentrated windings. 2019 , 101, 103-120	8
350	Comparative Thermal Analysis of IPMSMs With Integral-Slot Distributed-Winding (ISDW) and Fractional-Slot Concentrated-Winding (FSCW) for Electric Vehicle Application. 2019 , 55, 3577-3588	27
349	Fast and Accurate Model of Interior Permanent-Magnet Machine for Dynamic Characterization. 2019 , 12, 783	10
348	Research on the effects of electromagnetic and temperature performance of single and double winding of the permanent magnet motor. 2019 ,	
347	Closed-Form Solution for the Slot Leakage Inductance of Tooth-Coil-Winding Permanent Magnet Machines. 2019 , 34, 1572-1580	6
346	Outer Rotor PM Synchronous Generator for Household Wind Power Generation Comparative study upon structural solution. 2019 ,	0
345	Investigation of Multi-Physical Characteristics in Coupling-Five-Phase Motor under Driver-Open-Phase Fault Condition for Small Propulsion System. 2019 ,	0
344	Coherences Between Production Technology and Performance of Electric Traction Drives. 2019 ,	8
343	Design rules for Stators with Flux Barriers. 2019 ,	0
342	Fault Tolerance Capabilities of Three, Four and Six-Phase Configurations of a 24 Slot Modular PMSM. 2019 ,	0
341	A Compact High Torque Density Dual Rotor Permanent Magnet In-Wheel Motor With Toroidal Windings. 2019 ,	7
340	The Analysis and Calculation of Load Radial Electromagnetic Force of the Interior Permanent Magnet Synchronous Machine. 2019 ,	
339	Design Aspects for Fractional-Slot PMBLDC Motor. 2019 ,	1
338	A Fully-Integrated Fault-Tolerant Multi-Phase Electric Drive for Outboard Sailing Boat Propulsion. 2019 ,	2
337	Control strategies for non-sinusoidal multiphase PMSM drives in faulty modes under constraints on copper losses and peak phase voltage. 2019 , 13, 1743-1752	10
336	Multi-Objective Optimization Design of Fractional Slot Concentrated Winding Permanent Magnet Synchronous Machines. 2019 , 7, 162874-162882	8

335	Comparison of MTPA and Minimum Loss Control for Tooth Coil Winding PMSM Considering PM and Inverter Losses. 2019,	1
334	Unbalanced Magnetic Force Calculation Based on Subdomain and Magnetic Circuit Hybrid Model in SPM Machines. 2019,	
333	Systematic design study into the influence of rotational speed on the torque density of surface-mounted permanent magnet machines. 2019, 2019, 4595-4600	
332	Sensitivity Comparison of Open-Circuit Airgap Flux Between Surface-Mounted Permanent Magnet and Spoke-Type Permanent Magnet Machines Considering Manufacturing Tolerances. 2019, 7, 165908-165918 ²	
331	Design of Conical Rotor Flux-Switching Permanent Magnet Machine with Improved Flux-Weakening Capability for Traction Applications. 2019,	
330	Double three-phase PMSM structures for fail operational control. 2019, 52, 1-6	0
329	Comparison Study of Interior Permanent Magnet Synchronous Machine with Conventional and Consequent Pole Rotor. 2019,	9
328	Analysis and Reduction of Electromagnetic Noise Induced by Dead Time Effect for an Axial-Flux Permanent Magnet Motor. 2019,	
327	Design of Direct Drive Modular Permanent Magnet Generator With Magnetic Slot Wedges and Step-Skewed Outer Rotor for Wind Power Applications. 2019,	9
326	Finding Electromagnetic Loads and Magnetic-Field Factors in Design of Integrated Brushless Excitation DC Generator. 2019,	
325	Investigation of Asymmetric and Unbalanced Winding Structures for 3-Phase Permanent Magnet Synchronous Machines. 2019,	1
324	Analytical Model and Sensitivity Analysis of Tooth-Coil-Winding Permanent Magnet Synchronous Machine with Modular U-Shape Stator. 2019,	1
323	Indirect Analytical Modeling and Analysis of V-Shaped Interior PM Synchronous Machine. 2019, 7, 173786-173785	
322	Finite element analysis of a modular brushless wound rotor synchronous machine. 2019, 2019, 3521-3526	1
321	Robust Stator-Excited Brushless Synchronous Machine: An Attractive Permanent Magnet-Free Option. 2019,	7
320	Performance improvement of SPM synchronous machines with non-conventional stator slot magnetic wedges. 2019,	
319	Comparative Analysis of Novel Fractional Slot Non-overlapping Winding Hybrid Excited Machines Having Different Consequent Pole Rotor Topologies. 2019,	2
318	Harmonic analysis of three-phase fractional-slot concentrated windings based on number theory. 2019,	

317	Analysis of Dual 3-Phase Fractional-Slot Concentrated Winding PM Synchronous Machines with Different Angle Displacements. 2019 ,	0
316	Design Optimisation and Comparison of Fractional-Slot Overlap and Non-Overlap Winding Direct-Drive PM Wind Generators for DC-connected Applications. 2019 ,	1
315	Performance comparison between Rare earth and Non-Rare Earth based SPM machines using High Silicon Steel. 2019 ,	0
314	Fast and Accurate Model for Optimization-based Design of Fractional-Slot Surface PM Machines. 2019 ,	3
313	Investigation of SlotPole Combination of Dual-Permanent-Magnet-Excited Vernier Machines by Using Air-Gap Field Modulation Theory. 2019 , 5, 1360-1369	11
312	Fractional Slot Concentrated Windings Interior Permanent Magnet Traction Motor With Modular Stator. 2019 ,	6
311	PM Brushless Motor for Aileron/Spoiler system of a Regional Aircraft. 2019 ,	0
310	Third Order Harmonic Utilization in In-Wheel Machines to Improve Output Torque. 2019 , 65-77	
309	Multi-objective Optimization of Surface-Mounted Permanent Magnet Machine with Third Harmonic Shaped Rotor. 2019 , 159-179	
308	Torque Enhancement of Three Phase Surface-Mounted Permanent Magnet Machine Using 3rd Order Harmonic. 2019 , 13-38	4
307	Average Torque Improvement of Three Phase Interior Permanent-Magnet Machine Using 3rd Harmonic in Rotor Shape. 2019 , 39-64	
306	Influence of Harmonics on Radial Force and Vibration of Surface-Mounted Permanent Magnet Machines. 2019 , 143-157	
305	Comparative Study of Consequent-Pole and Hybrid-Pole Permanent Magnet Machines. 2019 , 34, 701-711	24
304	Influence of Gear Ratio on the Performance of Fractional Slot Concentrated Winding Permanent Magnet Machines. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 7593-7602	8.9 13
303	Magnet Eddy Current Loss Reduction in Permanent Magnet Machines. 2019 , 55, 1309-1320	7
302	Fast and Systematic Design Optimization of Surface-Mounted PM Machines Using Advanced Analytical Models and Subharmonic Elimination Methods. 2019 , 55, 1-16	12
301	Effect of Local Tangential Force on Vibration Performance in Fractional-Slot Concentrated Winding Permanent Magnet Synchronous Machines. 2019 , 34, 1082-1093	21
300	A new analytical technique for analysis and detection of air-gap eccentricity fault in surface-mounted permanent-magnet machines. 2019 , 29, e2764	3

299	Severity Estimation of Interturn Short Circuit Fault for PMSM. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 7260-7269	8.9	38
298	Extending Operational Limit of IPMSM in Signal-Injection Sensorless Control by Manipulation of Convergence Point. 2019 , 55, 1574-1586		26
297	A Dynamic Multilayer Winding Thermal Model for Electrical Machines With Concentrated Windings. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 6189-6199	8.9	15
296	Influence of Adjacent Teeth Magnet Polarities on the Performance of Flux Reversal Permanent Magnet Machine. 2019 , 55, 354-365		18
295	Novel Hybrid-Pole Rotors for Consequent-Pole PM Machines Without Unipolar Leakage Flux. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 6811-6823	8.9	32
294	Reduction of Torque Ripple in Consequent-Pole Permanent Magnet Machines Using Staggered Rotor. 2019 , 34, 643-651		20
293	. 2019 , 55, 1-10		5
292	Comparative Analysis of Flux Reversal Permanent Magnet Machines With Toroidal and Concentrated Windings. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 5278-5290	8.9	9
291	Flux-Focusing Permanent Magnet Machines With Modular Consequent-Pole Rotor. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 3374-3385	8.9	20
290	Optimization and Performance Improvement of a Hybrid Excitation Synchronous Machine With Modular Magnetic-Shunting Rotor. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 4381-4390	8.9	6
289	. 2020 , 56, 183-193		22
288	Analysis of Inter-Turn-Short Fault in an FSCW IPM Type Brushless Motor Considering Effect of Control Drive. 2020 , 56, 1356-1367		5
287	Comparison of stator- and rotor-surface-mounted PM brushless machines. 2020 , 14, 62-70		3
286	A Nonlinear q -Axis Inductance Modeling of a 12-Slot 10-Pole IPM Using Approximate Analytical Methods. 2020 , 35, 621-630		5
285	Investigation of a Direct Liquid Cooling System in a Permanent Magnet Synchronous Machine. 2020 , 35, 808-817		12
284	Multiobjective Deterministic and Robust Optimization Design of a New Spoke-Type Permanent Magnet Machine for the Improvement of Torque Performance. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 10202-10212	8.9	15
283	Multilayer Fractional Slot Pole-Phase Modulated Induction Motor Drives for Traction Applications. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 9112-9119	8.9	6
282	Analysis of Common-mode EMI in PM Synchronous Machines with Fractional-slot Concentrated Winding. 2020 ,		

281	Analysis of a Tooth-Coil Winding Permanent-Magnet Synchronous Machine With an Unequal Teeth Width. 2020 , 8, 71512-71524	5
280	Design and Experimental Verification of Low Cost Ferrite PM-Assisted Synchronous Reluctance Motor. 2020 ,	6
279	Design techniques for cogging torque reduction in a fractional-slot PMLDC motor. 2020 , 39, 1041-1055	1
278	Mechanical Design and Analysis of a High-Torque Modular Hybrid Excitation Synchronous Machine for Electric Vehicle Propulsion Applications. 2020 , 69, 9624-9633	4
277	Electromagnetic and Calorimetric Validation of a Direct Oil Cooled Tooth Coil Winding PM Machine for Traction Application. 2020 , 13, 3339	6
276	Inductance Calculation and Torque Separation of a Unique Multi-Layer Spoke-type Interior Permanent Magnet Motor using the Frozen Permeability Method. 2020 , 765, 012010	
275	Modular Permanent Magnet Synchronous Machine with Low Space Harmonic Content. 2020 , 13, 3924	3
274	Reduction of Torque Ripple for Interior Permanent Magnet Motor with Fractional-Slot Concentrated-Windings. 2020 , 1601, 022001	
273	Consequent Pole Toroidal Winding Dual Rotor Permanent Magnet Synchronous Machines. 2020 ,	2
272	Concentrated Windings for Wind Generators with Solid Rotor Iron and Redundant Feeding. 2020 ,	1
271	Influence of Introducing the Rotor MMF Harmonic on Torque Performance of Spoke Type Permanent Magnet Motor With FSCW. 2020 , 8, 196123-196134	2
270	Two-axis Vector Control of Double Stator Linear and Rotary Permanent Magnet Machine Considering Orthogonally Coupling Effect. 2020 ,	0
269	Two-Slot Coil Pitch For Five-Phase Integrated Permanent Magnet Synchronous Machine. 2020 ,	0
268	Vibration Optimization of FSCW-IPM Motor Based on Iron-Core Modification for Electric Vehicles. 2020 , 69, 14834-14845	6
267	Use of current sheet coupled to an analytical tool to analyze by FEM the harmonic content of armature winding ditribution. 2020 , 39, 1329-1344	
266	Full Range High Dynamic Sensorless Control of Fractional Slot Concentrated Winding Machine. 2020 ,	
265	Semi-analytical Finite Element Study of the Slot Leakage Inductance of Double-Layer Windings. 2020 ,	
264	Algebraic Design of Symmetrical Windings for AC Machines. 2020 ,	

263	High Voltage Direct Driven Wind Turbine Generator. 2020 ,	
262	Investigation of DC Winding Induced Voltage in Hybrid-Excited Switched-Flux Permanent Magnet Machine. 2020 , 56, 3594-3603	13
261	A Review of Integrated On-Board EV Battery Chargers: Advanced Topologies, Recent Developments and Optimal Selection of FSCW Slot/Pole Combination. 2020 , 8, 85216-85242	45
260	Cooling of Windings in Electric Machines via 3-D Printed Heat Exchanger. 2020 , 56, 4718-4726	11
259	A Novel 24-Slot/10-Pole Dual Three-Phase Fractional-Slot Overlapped Winding for Low Non-Working Space Harmonics and Stator Modularization. 2020 , 8, 85490-85503	8
258	Improvement of Concentrated Winding Layouts for Six-Phase Squirrel Cage Induction Motors. 2020 , 35, 1727-1735	10
257	Analysis of the sideband current harmonics and vibro-acoustics in the PMSM with SVPWM. 2020 , 13, 1033-1040	7
256	Comparative study on performance characteristics of PM and reluctance machines equipped with overlapping, semi-overlapping, and non-overlapping windings. 2020 , 14, 991-1001	1
255	A New Six-Phase FSCW Layout for Permanent Magnet Synchronous Wind Generators. 2020 ,	0
254	Consideration of ferromagnetic anisotropy in electrical machines built of segmented silicon steel sheets. 2020 , 14, 242-249	
253	Consequent Pole Permanent Magnet Machine With Modular Stator. 2020 , 69, 7054-7063	6
252	Heuristic Optimization Based on Penalty Approach for Surface Permanent Magnet Synchronous Machines. 2020 , 45, 6751-6767	8
251	Comparative Analysis of Three-phase and Five-phase Permanent-magnet Motor Based on Finite Element Method. 2020 , 15, 1705-1712	1
250	A Novel Fractional Slot Non-Overlapping Winding Hybrid Excited Machine With Consequent-Pole PM Rotor. 2020 , 35, 1628-1637	19
249	Analysis and Design of Innovative Magnetic Wedges for High Efficiency Permanent Magnet Synchronous Machines. 2020 , 13, 255	3
248	Design of a Bi-Harmonic 7-Phase PM Machine With Tooth-Concentrated Winding. 2020 , 35, 1567-1576	3
247	Overview of Flux-Modulation Machines Based on Flux-Modulation Principle: Topology, Theory, and Development Prospects. 2020 , 6, 612-624	19
246	Enhanced Flexible Algorithm for the Optimization of Slot Filling Factors in Electrical Machines. 2020 , 13, 1041	3

245	Magnetic Noise Reduction of In-Wheel Permanent Magnet Synchronous Motors for Light-Duty Electric Vehicles. 2020 , 2, 156-172		
244	Optimale Auslegung von getriebelosen, permanentmagneterregten Windgeneratoren mit Zahnspulenwicklung und massivem Rotorjoch. 2020 , 137, 266-279		2
243	Research of Rotor Positioning on Solving the Pole Pairs Mismatch between PMSM and Rotating Transformer. 2020 ,		
242	Additive Manufacturing of Shaped Profile Windings for Minimal AC Loss in Electrical Machines. 2020 , 56, 2510-2519		23
241	Low torque ripple tooth coil windings multi-3-phase machines: design considerations and validation. 2020 , 14, 262-273		2
240	Space-Shifted WyeDelta Winding to Minimize Space Harmonics of Fractional-Slot Winding. 2020 , 56, 2520-2530		7
239	Electropermanent magnet blank holder technique in sheet metal deep drawing. 2020 , 106, 5497-5507		2
238	Design and Analysis of a Bearingless Permanent-Magnet Motor for Axial Blood Pump Applications. 2020 , 8, 7622-7627		3
237	Fault-tolerant control of a 7-Phase Surface-mounted PM Machine with tooth-concentrated winding. 2020 ,		0
236	Contribution of winding space harmonics to average torque in fractional-slot concentrated permanent magnet machines with equal/unequal teeth. 2020 , 14, 544-551		
235	Effect of Phase Shift Angle on Radial Force and Vibration Behavior in Dual Three-Phase PMSM. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 2988-2998	8.9	20
234	Design and Verification of In-Slot Oil-Cooled Tooth Coil Winding PM Machine for Traction Application. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 3719-3727	8.9	15
233	Modeling of End-Space Convection Heat-Transfer for Internal and External Rotor PMSMs With Fractional-Slot Concentrated Windings. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 1928-1937	8.9	12
232	Performance Comparisons of Fractional Slot Surface-Mounted Permanent Magnet Machines With Slot-Harmonic-Only Windings. 2021 , 36, 995-1004		1
231	EMF Voltage Distortion Mitigation in Fractional-Slot Permanent Magnet Machines by Varying Coil Distribution and Turn Ratio. 2021 , 57, 1-5		0
230	Two-Phase DC-Biased Vernier Reluctance Machines. 2021 , 57, 1-5		3
229	Optimization of the MMF spatial harmonic content to design electrical machine winding. 2021 , 64, S99-S114		1
228	Investigation of Asymmetric and Unbalanced Winding Structures for 3-Phase Permanent Magnet Synchronous Machines. 2021 , 36, 1722-1732		3

227	A Novel Rotor Topology for High-Performance Fractional Slot Concentrated Winding Interior Permanent Magnet Machine. 2021 , 36, 658-670		6
226	Advanced multi-phase fractional slot concentrated windings: characteristics and potentials. 2021 , 103, 397-406		1
225	Harmonic Suppression and Torque Ripple Reduction of a High-Speed Permanent Magnet Spindle Motor. 2021 , 9, 51695-51702		3
224	Investigation of Novel Fractional Slot Nonoverlapping Winding Hybrid Excited Machines With Different Rotor Topologies. 2021 , 57, 468-480		10
223	Design and Validation of an Unconventional 39-Slot PM Synchronous Motor with Asymmetric and Unbalanced AC Windings. 2021 , 1-1		1
222	Analysis and Reduction of Electromagnetic Vibration in Fractional-Slot Concentrated-Windings PM Machines. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	3
221	Design Consideration of Fractional Slot Concentrated Winding Interior Permanent Magnet Synchronous Motor for EV and HEV Applications. 2021 , 9, 64116-64126		4
220	Anti-Demagnetization Analysis of Fractional Slot Concentrated Windings Interior Permanent Magnet Motor Considering Effect of Rotor Design Parameters. 2021 , 1-1		1
219	Design Principles for Compact, Backdrivable Actuation in Partial-Assist Powered Knee Orthoses.. 2021 , 26, 3104-3115		12
218	Definition and Experimental Validation of a Second-Order Thermal Model for Electrical Machines. 2021 , 1-1		1
217	Fractional-Slot PMSMs With One Coil Parallel Branches Made PhasesPart I: Investigation Study. 2021 , 9, 131322-131335		1
216	Opportunities and Challenges of Utilizing Additive Manufacturing Approaches in Thermal Management of Electrical Machines. 2021 , 9, 36368-36381		13
215	Analysis of the Sideband Electromagnetic Noise in Permanent Magnet Synchronous Motors Generated by Rotor Position Error. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	2
214	Analytical Calculation of Magnetic Field in Fractional-Slot Windings Linear Phase-Shifting Transformer Based on Exact Subdomain Model. 2021 , 9, 122351-122361		0
213	Analysis and Design of Dual Three-phase Fractional-slot Permanent Magnet Motor with Low Space Harmonic. 2021 , 1-1		3
212	Design and Comparison of Three Surface-Mounted PM Motors for a Light Electric Vehicle. 2021 ,		1
211	Permanent Magnet Synchronous Reluctance Machines with Axially Combined Rotor Structure. 2021 , 1-1		3
210	. 2021 , 9, 118953-118967		2

209	Winding Configurations and Pole/Tooth Combinations of Doubly-Fed Flux-Switching Permanent Magnet Machines. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	5
208	Stainless-Core Submersible Permanent Magnet Synchronous Machine. 2021 , 9, 28089-28100		3
207	Dual-Inverter PWM Scheme for dc-biased Vernier Reluctance Machines with Reduced Switching Frequency Capable of Zero Sequence Current Regulation. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	1
206	. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	0
205	Performance of the Noise and Vibration of the AC/DC Signal for a Permanent Magnetic DC Motor. 2021 , 57, 1-5		3
204	Novel Single-Phase Short-Stroke Tubular Permanent Magnet Oscillating Machines with Partitioned Stator. 2021 , 14, 1863		0
203	Algebraic synthesis and analysis of windings for AC machines. 2021 , 138, 78-84		
202	Optimal Design of A 12-Slot/10-Pole Six-Phase SPM Machine with Different Winding Layouts for Integrated On-Board EV Battery Charging. 2021 , 14, 1848		1
201	Investigation on the Torque Ripple Reduction Method of a Hybrid Electric Vehicle Motor. 2021 , 14, 1413		5
200	Nine-Phase-based Fractional-Slot Winding Layouts for Integrated EV On-board Battery Chargers. 2021 ,		
199	Reduction in Eddy Current Loss of Concentrated Windings in High-power Density IPMSM Using Rectangular Windings. 2021 ,		
198	Potentials and Limits of Three-Phase Fractional-Slot Concentrated Winding Optimization. 2021 ,		1
197	A Complex Study of Stator Tooth-Coil Winding Thermal Models for PM Synchronous Motors Used in Electric Vehicle Applications. 2021 , 14, 2395		1
196	Analysis of a direct-drive permanent magnet synchronous generator with novel toroidal winding. 2021 , 15, 2237-2245		0
195	Demagnetization Analysis of a Split-Tooth Concentrated-Winding Vernier Machine using Halbach-array-based Ferrite Magnets. 2021 ,		1
194	Electromagnetic Design Characterization of a Dual Rotor Axial Flux Motor for Electric Aircraft. 2021 ,		2
193	Comparison of Permanent Magnet Machines Equipped with Unbalanced Fractional-Slot Distributed Windings vs. Balanced Fractional-Slot Concentrated Windings. 2021 ,		1
192	Design and Optimization of a Low-Torque-Ripple High-Torque-Density Vernier Machine Using Ferrite Magnets for Low-Speed Direct-Drive Applications. 2021 ,		2

191	Advanced Non-Permanent-Magnet Reluctance Machines for Traction Applications: A Review. 2021,	4
190	Algebraic Design of Symmetrical Windings for AC Machines. 2021, 57, 1928-1934	1
189	Multiphysics Modelling and Real Time Simulation of a Permanent-Magnet Machine for Electric Vehicles. 2021,	
188	Investigation into fault tolerant capability of new modular low-speed and high-torque direct-drive permanent magnet motor based on unequal span winding. 2021, 15, 1358-1383	2
187	Analysis and Application of Two-Layer Unconventional Windings for PM-Assisted Synchronous Reluctance Motors. 2021, 14, 3447	0
186	A Novel Five-Phase Fractional Slot Concentrated Winding with Low Space Harmonic Contents. 2021, 57, 1-5	4
185	Design of Outer-Rotor Permanent-Magnet-Assisted Synchronous Reluctance Motor for Electric Vehicles. 2021, 14, 3739	3
184	Influence of Pole and Slot Combination on Torque Characteristics and Radial Force of Fractional Slot Permanent Magnet Machines. 2021, 16, 1055-1066	0
183	A Robust Non-Permanent Magnet Five-Phase Synchronous Reluctance Traction Motor. 2021,	1
182	Six-Phase Non-Rare Earth Spoke Interior Permanent Magnet Traction Motor With Concentrated Windings. 2021,	0
181	Novel Linear Generator Concepts and Topologies for Wave Energy Conversion Systems: A Review. 2021,	1
180	Analytical prediction of electromagnetic performance of dual-stator consequent-pole PM machines based on subdomain model accounting for tooth-tips. 2021, 40, 289-308	
179	Comparison between 3-ph and 6-ph PMSM drives for the electric propulsion of unmanned aerial vehicles. 2021,	
178	Investigation of Coil Pitch Types in FSCW Interior PM Synchronous Machine. 2021,	
177	Review of Rotor Position and Speed Estimation Method of PMSM with Hall Sensor. 2021,	0
176	A Test Procedure to Evaluate Magnets Thermal Time Constant of Permanent Magnet Machines. 2021, 57, 4694-4706	1
175	A novel high torque density six-phase axial-flux permanent magnet synchronous motor with 60° phase-belt toroidal winding configuration.	0
174	Investigation of Double-Side Field Modulation Mechanism in Consequent-Pole PM Machines With Concentrated Windings. 2021, 36, 1635-1648	3

173	The Problem of Rotor Eddy-Current Losses in a Permanent Magnet Motor with High Power Density. 2022 , 501-512		1
172	. 2021 , 57, 1-19		8
171	A Novel DC-Biased Current Dual PM Vernier Machine. 2021 , 57, 4595-4605		3
170	Torque Ripple Reduction for Permanent Magnet Motor using New Configuration for Concentrated Windings. 2021 , 141, 763-770		1
169	The Mechanism Analysis on Open-Circuit Back EMF in Fractional-Slot Concentrated Winding Permanent Magnet Machines Using Air-Gap Field Modulation Theory. 2021 , 7, 2658-2670		1
168	Hairpin Windings: An Opportunity for Next-Generation E-Motors in Transportation. 2021 , 2-10		3
167	Design and Optimization of a High-Torque-Density Low-Torque-Ripple Vernier Machine Using Ferrite Magnets for Direct-Drive Applications. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	9
166	A New IPMSM with Hybrid Rotor Structure for Electrical Vehicle with Reduced Magnet Loss. 2021 , 1-1		3
165	Improved calculation of the slot leakage inductance of different slot shapes. 2020 , 102, 1129-1139		2
164	Synchronous reluctance motor technology: industrial opportunities, challenges and future direction. 2016 ,		9
163	Design and analysis of interior permanent magnet machines equipped with novel semi-overlapping windings. 2020 , 14, 1446-1457		1
162	Analysis of coil pitch in induction machines for electric vehicle applications. 2020 , 14, 2525-2536		3
161	Analytical model and optimisation design of surface-mounted PM motors with Halbach arrays accounting for semi-closed slots. 2020 , 14, 2074-2081		3
160	Dc-link and machine design considerations for resonant controllers adopted in automotive PMSM drives. 2020 , 10, 75-80		1
159	Influences of Design and Manufacturing on the Performance of Electric Traction Drives. 2020 ,		5
158	High temperature machines: topologies and preliminary design. 2019 , 17, 657-669		3
157	Optimal Design of a Distributed Winding Type Axial Flux Permanent Magnet Synchronous Generator. 2012 , 7, 69-74		8
156	Minimization of a Cogging Torque for an Interior Permanent Magnet Synchronous Machine using a Novel Hybrid Optimization Algorithm. 2014 , 9, 859-865		8

155	Improved Method for Calculating Magnetic Field of Surface-Mounted Permanent Magnet Machines Accounting for Slots and Eccentric Magnet Pole. 2015 , 10, 1025-1034	10
154	Improved Method for Calculating Armature-Reaction Field of Surface-Mounted Permanent Magnet Machines Accounting for Opening Slots. 2015 , 10, 1674-1681	1
153	Fault-tolerant Operation of DC-Field Excited Modular Variable Flux Reluctance Machine under Open-circuit Faults. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9 0
152	Calculation of Winding Factor and Analysis of Armature MMF of a PMSM with Fractional-Slot and 5-Phase Winding. 2012 , 2039-2046	
151	Analytical Prediction and Experimental Verification of Electromagnetic Performance of a Surface-Mounted Permanent Magnet Motor having a Fractional Slot/Pole Number Combination. 2014 , 19, 84-89	2
150	Energy Conversion Motor Control. 2015 , 207-240	
149	Analysis and Experimental Characterization of Low Speed Direct Drive Fractional Slot Concentrated Winding Surface Permanent Magnet Synchronous Motor with Consequent Pole Rotor. 2015 , 10, 2057-2061	
148	Bibliography. 219-233	
147	Influence of mixed winding arrangements on torque ripples of five-phase induction machines. 2017 , 151, 154-165	3
146	Analytical Modelling of Stator Magnetic Characteristics in Fractional-Slot Concentrated-Wound Permanent Magnet Machines. 2018 , 23-59	0
145	Introduction and Literature Review. 2018 , 1-22	
144	Drivetrain Analysis and Optimization of a Two-Speed Class-4 Electric Delivery Truck.	0
143	Optimization of surface-mounted permanent magnet brushless AC motor using analytical model and differential evolution algorithm. 2019 , 70, 208-217	2
142	Designing a fuzzy PI ^λ controller to control the pitch angle in wind turbines under variant speed. 2020 , 9, 1-15	
141	Investigation of a hybrid excited doubly salient machine with permanent magnets located on stator slot openings. 2020 , 14, 1541-1549	1
140	Comparison of Single- and Double-Layer Windings in Spoke-type Synchronous Motors with Ferrite Magnets. 2020 ,	
139	High Voltage Direct Drive Generators with Multiphase Single Layer Fractional Slot Concentrated Windings. 2020 ,	0
138	Manufacturing of tooth coil winding PM machines with in-slot oil cooling. 2020 ,	1

137	Combination of Numerical and Analytical Methods for Hydrogenerator Calculation. 2020 ,	
136	Enhanced Flux Modulation of FSCW Consequent Pole PM Machine Employing Stator Slot Halbach PM. 2020 ,	1
135	Three-Phase Winding Design for Large Hydro-Generators. 2020 ,	0
134	Comparison of Designs Utilizing Dual Phase Magnetic Material in High Specific Power Electrical Machines for Aerospace Applications. 2020 ,	1
133	. 2020 ,	
132	New Optimized Fractional Slot Concentrated Winding Design for MMF Harmonic Reduction. 2020 ,	
131	Model predictive combined vector and direct torque control of SM-PMSM with MTPA and constant stator flux magnitude analysis in the stator flux reference frame. 2020 , 14, 2283-2292	2
130	Integration of Forming Manufacturing Technology into the Component Production of Innovative Electric Motor Concepts. 2020 ,	1
129	Online detection of inter-turn short-circuit fault in dual-redundancy permanent magnet synchronous motor. 2021 , 15, 104-113	0
128	Influence of unbalanced magnetic force on shaft deflection in permanent magnet synchronous motor with fractional slot concentrated windings. 2020 , 64, 1461-1468	
127	Theory of symmetric winding distributions and a general method for winding MMF harmonic analysis. 2020 , 14, 2587-2597	0
126	An Experimental Investigation of Acoustic Noise and Vibration of PMSM Induced by Power Electronics Converters. 2020 , 48, 2005-2018	
125	Comprehensive Sensitivity Analysis and Multi-Objective Optimization on a Permanent Magnet Linear Generator for Wave Energy Conversion.	
124	Novel modelling method based on winding sub-element of direct-drive permanent magnet synchronous motor. 2020 , 14, 1078-1088	2
123	Investigation of the Effects of Multi-Layer Winding Structures in Two Pole Synchronous Reluctance Machines. 2021 ,	
122	Analysis and comparison of performance of permanent magnet servo motors after stator shifting combination. 2020 , 2020, 282-291	1
121	Analytical computation of normal and fault-tolerant active short circuit operation of anisotropic synchronous double star machines. 2020 ,	0
120	Architecture choices for high-temperature synchronous machines. 2020 , 18, 683-700	0

119	Optimized Design and Analysis of Fractional-Slot Concentrated-Winding Spoke-Type PM Machines for Electric Vehicles Traction Applications. 2020 ,	2
118	An Additional Short-Circuited Stator Winding in Flux-Barriers to Improve the Machine Performance. 2020 ,	
117	Comparative Analysis of Magnet Demagnetization in FSCW and ISDW IPM Machines with Various Rotor Topologies. 2020 ,	
116	Study on Cost Reduction of 3.6MW Permanent Magnet Synchronous Wind Generator. 2020 ,	
115	A Study on Air-Gap Flux Density Distribution of Bridged Slit-Stator Motors. 2020 ,	
114	Spatial Harmonic Wave Reduction for Magnetic Field near the Surface of Halbach Array. 2020 ,	
113	Performance Improvement of a Five-Phase PMSM Drive Under Open Circuit Stator Faults. 2021 ,	1
112	Application of Flat Rectangular Wire Concentrated Winding for AC loss Reduction in Electrical Machines. 2021 ,	2
111	Performance Improvement of Fault-Tolerant Control for Dual Three-Phase PMSM Drives Under Inter-Turn Short Circuit Faults. 2021 ,	0
110	Fault Tolerant Fractional-Slot Concentrated-Wound Permanent Magnet Synchronous Motor with Redundancy for Critical Applications. 2021 ,	
109	A Comprehensive Comparison of Concentrated Winding and Distributed Continuous Winding Machine Topologies for Hybrid Electric Vehicles. 2021 ,	1
108	Comparison of Candidate Designs and Performance Optimization for an Electric Traction Motor Targeting 50 kW/L Power Density. 2021 ,	1
107	Design and Performance Comparison of Nine-Phase Ferrite Spoke Interior Permanent Magnet Machines With Concentrated Windings for Traction Applications. 2021 ,	
106	A Novel Approach to Transverse Flux Machine Construction. 2021 , 14, 7690	2
105	Design and Multi-Objective Optimization of a 12-Slot/10-Pole Integrated OBC Using Magnetic Equivalent Circuit Approach. 2021 , 9, 329	0
104	Design and Optimization of a Magnetic-Geared Direct-Drive Machine with V-shaped Permanent Magnets for Ship Propulsion. 2021 , 1-1	0
103	Design and Construction of Axial-Flux Permanent Magnet Motors for Electric Propulsion Applications A Review. 2021 , 9, 158998-159017	4
102	Optimization and Comparison of Dual-Armature Flux-Switching Permanent Magnet Machines With Different Stator Core Shapes. 2021 , 1-1	2

101	New Optimized Fractional Slot Concentrated Winding Design for Torque Ripple Minimization in Permanent Magnet Machine. 2021 , 21, 127-134	0
100	Advantageous Fault-tolerant Multilevel and Multiphase Inverter Systems for Automotive Electric Powertrains. 2020 ,	
99	Influence of Design Parameters on Output Torque of Novel Doubly-Fed Flux-Switching Permanent Magnet Machines. 2020 ,	1
98	A Doubly-Fed Variable Flux Reluctance Machine with Integrated Stator Field and Armature Winding and Rotor Armature Winding. 2020 ,	
97	Detection and Localization of Interturn Short-Circuit Fault by Analysis of Stator Accelerations Spectrum in Five-Phase Flux Switching Machine for HEV Application. 2020 ,	
96	A Novel Design for a High Specific Power Interior Permanent Magnet Machine for Aerospace Applications.	4
95	A New Hybrid-Excited Doubly Salient Permanent Magnet Machine With Flux Concentration Effect and DC-biased Sinusoidal Current. 2020 ,	0
94	Selection of Permanent Magnet Material for Starter Excitation. 2020 ,	
93	Measurement of Rotor Thermal Time-Constant for Permanent Magnet Synchronous Machines. 2020 ,	1
92	Dual Three Phase Rare-Earth Free Spoke-Type Permanent Magnet Synchronous Traction Motor Using Ferrite Magnets. 2020 ,	3
91	High Torque Density Spoke-Type Ferrite Permanent Magnet Synchronous Machine Assisted by Rare-Earth Magnets for Traction Applications. 2020 ,	4
90	Design and Construction of a Foil Winding Permanent Magnet Machine. 2020 ,	1
89	Comparison of Fault-tolerant control strategies for a nine-phase IPMSM-FSCW. 2020 ,	
88	Design of a Novel PM Motor with Hybrid Magnetized IPM External Rotor for In-wheel Drive Application. 2021 ,	0
87	A Comparative Study on Design Method of Stator Winding for Direct-drive Shaft Generator. 2021 ,	
86	Influence of the Slots Number Combinations among the Inner and Outer Stator on Torque Ripple in Dual-Stator Permanent Magnet Synchronous Motors. 2021 ,	2
85	Determination and Optimization of Multiphase Fractional-Slot Windings used in Permanent Magnet Synchronous Machines. 2021 ,	
84	Design of High Torque Density Permanent Magnet Motors and Drives for Collaborative Robot Applications. 2021 ,	1

- 83 Axial Flux Permanent Magnet FSCW Machine Decoupling Unbalance Magnetic Force. **2021**,
- 82 Overview of Permanent Magnet Vernier Machines: Topologies, Key Problems and Applications. **2021**,
- 81 Vibration Analysis and Comparison of Low-Speed Outer Rotor Permanent Magnet Synchronous Machines. **2021**,
- 80 Fractional-Slot Concentrated Windings [Analytical Modelling using Fourier Series. **2021**,
- 79 Hybrid Analysis Method Considering Overhang Structures for Surface Permanent-Magnet Machines. **2022**, 17, 1217
- 78 Oriented exchange-coupled L1-FePt/Co core-shell nanoparticles with variable Co thickness.. **2022**, 12, 7568-7573 0
- 77 Multiobjective Optimization of IPMSM with FSCW Applying Rotor Notch Design for Torque Performance Improvement. **2022**, 1-1 3
- 76 Torque Ripple Reduction for Permanent Magnet Motor using New Configuration for Concentrated Windings. **2022**, 0
- 75 Modelling of Air-Gap Magnetic Flux Density Distribution for Surface-Mounted Permanent Magnet Synchronous Motor Using the Analytical Sub-Domain Method. **2022**, 109-119
- 74 Quantitative Analysis of Electromagnetic Forces by Decoupling Air-Gap Field Modulation and Force Modulation in Rotor-Permanent-Magnet Machines. *IEEE Transactions on Industrial Electronics*, **2022**, 1-1 8,9
- 73 Simplified 3-D Hybrid Analytical Modelling of Magnet Temperature Distribution for Surface-mounted PMSM with Segmented Magnets. **2022**, 1-1 0
- 72 Automated Controller Design for the PMSM Using Dynamic Mode Decomposition. **2022**, 10, 26101-26116
- 71 On the Design and Topology Selection of Permanent Magnet Synchronous Generators for Natural Impedance Matching in Small-Scale Uncontrolled Passive Wind Generator Systems. **2022**, 15, 1888
- 70 Design Optimization of Modular Permanent Magnet Machine with Triple Three-Phase for Aircraft Starter Generator. 0
- 69 A Comprehensive Survey on Fault Tolerance in Multiphase AC Drives, Part 1: General Overview Considering Multiple Fault Types. **2022**, 10, 208 8
- 68 Shaping the Topology of a Single Phase BLDC Motor for Reduced Cogging Torque and Improved Performance;.
- 67 Improved Current Control for Wide Band Gap Based Multiphase Drive. **2021**,
- 66 Design and Analysis of a Novel Integrated Starter-Generator Based on Brush DC Motor. **2021**,

- 65 Study on the Selection of the Number of Magnetic Poles and the Slot-Pole Combinations in Fractional Slot PMSM Motor with a High Power Density. **2022**, 15, 215 ○
- 64 Digital Twin for a 10 MW Electrical Drive System for Future Electric Aircraft Applications. **2021**, ○
- 63 Design and Manufacturing of a High Torque PMSM with Tooth-Coil Winding and Solid Rotor Yoke. **2021**, ○
- 62 Suppression of Torque Ripple in a New Consequent-Pole Permanent Magnet Machine by Segmented Structure. **2022**, 1-1
- 61 Effect of End-winding on Electromagnetic Performance of Fractional Slot and Vernier PM Machines with Different Slot/pole Number Combinations and Winding Configurations. **2022**, 1-1 ○
- 60 Minimization of Torque Ripples in Multi-Stack Slotted Stator Axial-Flux Synchronous Machine by Modifying Magnet Shape. **2022**, 10, 1653
- 59 Megawatt-Scale Electric Machines for Electrified Aircraft Propulsion. **2022**, 49-87
- 58 Research on Control Inertia and Stability of PMSG. **2022**, 11, 1583
- 57 Analysis of Acoustic Noise and Vibration of PMSM Coupled with DC Generator for Electric Vehicle Applications. **2022**, 717-757
- 56 Permanent Magnet Generator for a Gearless Backyard Wind Turbine. **2022**, 15, 3826
- 55 Open-Circuit Electromagnetic Analysis of Interior Permanent Magnet Machines with Arbitrary Rotor Frame Using a 2-D Analytical Model. **2022**, 1-1 3
- 54 A semi-analytical, numerical and experimental study on performance characteristics of a novel hybrid-rotor CVT magnetic gearbox. 095440702211031 1
- 53 Comparative Study of Vibration on 10-Pole 12-Slot and 14-Pole 12-Slot PMSM Considering Tooth Modulation Effect. *IEEE Transactions on Industrial Electronics*, **2022**, 1-10 8.9 ○
- 52 Research on the Influence of End Turn Length on Consequent-Pole Vernier Permanent-Magnet Machines. **2022**, 1-1 ○
- 51 A Novel Multi-Excitation-Tooth Nonoverlapping Stator Wound Field Synchronous Machine with Salient Rotor. **2022**, 1-1
- 50 Feasible and Optimal Design of an Airborne High-Temperature Superconducting Generator Using Taguchi Method. **2022**, 11, 1901
- 49 Design to reduce electromagnetic vibration in integral-slot SPM machine considering force modulation effect.
- 48 Analysis of Back-EMF Harmonics Influenced by Slot-Pole Combinations in Permanent Magnet Vernier In-Wheel Motors. *IEEE Transactions on Industrial Electronics*, **2022**, 1-10 8.9 1

47	Improvement Trends in the Development of Permanent Magnet Synchronous Machines for Automotive Applications. 2022,	
46	Investigation of Six-Phase Surface Permanent Magnet Machine with Typical Slot/Pole Combinations for Integrated Onboard Chargers Through Methodical Design Optimization. 2022, 1-1	
45	Eddy Currents in the Solid Rotor Yoke of a High-Torque PMSM with Tooth-Coil Winding. 2022,	
44	Axial Flux Motor Design for Ventilation Fans Used in The Automotive Industry. 2022, 10, 295-299	
43	Comparison of AC Losses in the Winding of Electrical Machines with Fixed Strands Positions, Fixed Conductor Shapes and Random Winding. 2022, 15, 5701	0
42	Synchronous reluctance machines with new type of fractional-slot concentrated-windings based on the concept of stator slot shifting.	
41	Comprehensive sensitivity analysis and multi-objective optimization on a permanent magnet linear generator for wave energy conversion. 2022,	
40	Hybrid-Magnet Variable Flux Memory Machine with Improved Field Regulation Capability for Electric Vehicle Applications. 2022, 1-1	0
39	Armature Reaction on Implementation of Embedded Magnetic Encoder in Fractional-Slot Concentrated-Winding Permanent Magnet Machines. 2022, 1-10	0
38	Fast Design of Spoke-Type PM Motor With Auxiliary Notches Based on Lumped-Parameter Magnetic Equivalent Circuit Model and Hybrid Multiobjective Optimizer. 2022, 10, 99421-99434	0
37	Multiphase Stator Winding: New Perspectives, Advanced Topologies, and Futuristic Applications. 2022, 10, 103241-103263	0
36	Critical Review of Direct-Drive Electrical Machine Systems for Electric and Hybrid Electric Vehicles. 2022, 1-12	3
35	Electromagnetic Design Characterization of a Dual Rotor Axial Flux Motor for Electric Aircraft. 2022, 1-10	0
34	Quantitative Comparisons of Outer-Rotor Permanent Magnet Machines of Different Structures/Phases for In-Wheel Electrical Vehicle Application. 2022, 15, 6688	1
33	Performance Comparison Between Permanent Magnet Synchronous Motor and Vernier Motor for In-Wheel Direct Drive. 2022, 1-11	0
32	Dynamic Modeling and Design of a Fractional Slot Overlapped Winding IPMSM for Light Electric Vehicle. 2022,	0
31	Permanent Magnet Synchronous Machine for Hybrid Light Aircraft. 2022,	0
30	Comparative Study of Yokeless Dual-rotor and External-rotor Radial-Flux Fractional-Slot PM Machines. 2022,	0

- 29 Comparison of two cylindrical Bar Windings for Low Voltage Permanent Magnet Synchronous Motor. Application for Electric Boat. **2022,** ○
- 28 Six Phase Fractional Slot Surface Permanent Magnet Motor for High Torque Density and High Speed. **2022,** ○
- 27 Sensorless controls of a 7-phase bi-harmonic Surface-mounted PM Machine. **2022,** ○
- 26 Additively Manufactured Fractional Slot Concentrated Windings with Integrated Heat Pipes: Single-Layer vs. Double-Layer. **2022,** ○
- 25 Seven-phase Axial And Radial Flux In-wheel Machine With Three Active Air Gaps. **2022,** ○
- 24 Investigation and comparison of the flux-switching permanent magnet machine and FSCW surface-mounted permanent magnet machine with close pole-pair number. ○
- 23 Multi-Physics Characteristics of PMSM for Compressor According to Driving Mode Considering PWM Frequency. **2022,** 10, 114490-114500 ○
- 22 Impact of MMF Harmonics on Rotor Losses of the PMSM with the Same Number of Poles and Slots. **2022,** ○
- 21 Comparison of Dual 3-phase Modular Permanent Magnet Machines with Overlapping/Non-overlapping Windings and Redundancy. **2022,** ○
- 20 Effect of Pole Position and Rotor Geometry in IPMSM with FSCW Stator: An Analytical Study. **2022,** ○
- 19 Analytical Method to Calculate Inductances of Spoke-Type Permanent-Magnet Synchronous Motors with Damping Bars. **2022,** 1-11 ○
- 18 Comparative Analysis of Distributed Winding and Fractional Slot Winding on High Power Synchronous Hydro-Generators. **2022,** ○
- 17 Comparative Analysis of Fractional Slot Concentrated Wound Permanent Magnet Synchronous Machines with Different Stator Grain Oriented Electric Steel Lamination Topologies. **2022,** ○
- 16 Six-phase Fractional Slot Concentrated Winding Permanent Magnet Synchronous Motor with Reduced Torque Ripple. **2022,** ○
- 15 Performance Improvement of a Micro Permanent Magnet Motor. **2022,** ○
- 14 Comparison of Vibration and Noise Characteristics between Radial Flux PMSMs And Axial Flux PMSMs. **2022,** ○
- 13 Influence of Slot and Pole Number Combinations on Cogging Torque in PM Machines with Tooth Bulge and Rotor Eccentricity. **2022,** ○
- 12 Influence of Magnet Tolerances and Rotor Eccentricities on Cogging Torque of 12-slot/10-pole PM Machines. **2022,** ○

11	Comparative Study of Radial-Flux Dual-Rotor Fractional-Slot Permanent Magnet Machines with Series and Parallel Magnetic Circuits. 2022 ,	0
10	Design and analysis of consequent pole permanent magnet synchronous motor with low torque ripple.	0
9	E-Bike Motor Drive: A Review of Configurations and Capabilities. 2023 , 16, 160	2
8	Detent force suppression of permanent magnet linear synchronous motor based on a V-shaped tooth-slot structure.	0
7	Reduction in Eddy Current Loss of Special Rectangular Windings in High-Torque IPMSM Used for Wind Generator. 2023 , 11, 4740-4751	0
6	Novel Rotor Structure Employing Large Flux Barrier and Disproportional Airgap for Enhancing Efficiency of IPMSM Adopting Concentrated Winding Structure. 2023 , 11, 2848-2862	0
5	Anodised Aluminium Foil Winding Axial Flux Machine for (Quasi-)Direct-Drive Robotic Applications: Preliminary Design and Manufacturing. 2022 ,	0
4	Compressed Sensing Algorithm for Short Data Window in Distribution Network. 2023 , 11-23	0
3	Conceptual design of different winding types for a 20MW wind turbine generator. 2022 ,	0
2	Analytical Modeling, Analysis and Diagnosis of External Rotor PMSM with Stator Winding Unbalance Fault. 2023 , 16, 3198	0
1	Design of multi-phase permanent magnet synchronous motor with fractional-slot windings for electromagnetic vibration reduction considering stator teeth modulation.	0