Jin Hur

List of Publications by Year
in descending order

195 papers	2,830 citations	172457 29 h-index	214800 47 g-index
195 all docs	195 docs citations	195 times ranked	1692 citing authors

#	Article	IF	Citations
1	Fuel Cell Generation System With a New Active Clamping Current-Fed Half-Bridge Converter. IEEE Transactions on Energy Conversion, 2007, 22, 332-340.	5.2	160
2	A Novel Cogging Torque Reduction Method for Interior-Type Permanent-Magnet Motor. IEEE Transactions on Industry Applications, 2009, 45, 161-167.	4.9	124
3	Analysis of irreversible magnet demagnetization in line-start motors based on the finite-element method. IEEE Transactions on Magnetics, 2003, 39, 1488-1491.	2.1	113
4	Detection of Inter-Turn and Dynamic Eccentricity Faults Using Stator Current Frequency Pattern in IPM-Type BLDC Motors. IEEE Transactions on Industrial Electronics, 2016, 63, 1771-1780.	7.9	104
5	Determination of parameters considering magnetic nonlinearity in an interior permanent magnet synchronous motor. IEEE Transactions on Magnetics, 2006, 42, 1303-1306.	2.1	97
6	Finite Element Computation of Magnetic Vibration Sources in 100 kW Two Fractional-Slot Interior Permanent Magnet Machines for Ship. IEEE Transactions on Magnetics, 2012, 48, 867-870.	2.1	89
7	Design and Optimization of Neodymium-Free SPOKE-Type Motor With Segmented Wing-Shaped PM. IEEE Transactions on Magnetics, 2014, 50, 865-868.	2.1	79
8	Characteristic Analysis of Interior Permanent-Magnet Synchronous Motor in Electrohydraulic Power Steering Systems. IEEE Transactions on Industrial Electronics, 2008, 55, 2316-2323.	7.9	77
9	Vibration Reduction of IPM-Type BLDC Motor Using Negative Third Harmonic Elimination Method of Air-Gap Flux Density. IEEE Transactions on Industry Applications, 2011, 47, 1300-1309.	4.9	77
10	Modeling of Core Loss Resistance for $dhbox{-}q$ Equivalent Circuit Analysis of IPMSM considering Harmonic Linkage Flux. IEEE Transactions on Magnetics, 2011, 47, 1066-1069.	2.1	65
11	Stator and Rotor Shape Designs of Interior Permanent Magnet Type Brushless DC Motor for Reducing Torque Fluctuation. IEEE Transactions on Magnetics, 2012, 48, 4662-4665.	2.1	60
12	Performance analysis of skewed PM linear synchronous motor according to various design parameters. IEEE Transactions on Magnetics, 2001, 37, 3653-3657.	2.1	59
13	Optimization Methods of Torque Density for Developing the Neodymium Free SPOKE-Type BLDC Motor. IEEE Transactions on Magnetics, 2013, 49, 2173-2176.	2.1	54
14	Finite-Element Analysis of the Demagnetization of IPM-Type BLDC Motor With Stator Turn Fault. IEEE Transactions on Magnetics, 2014, 50, 889-892.	2.1	54
15	Torque characteristic analysis considering the manufacturing tolerance for electric machine by stochastic response surface method. IEEE Transactions on Industry Applications, 2003, 39, 713-719.	4.9	52
16	Transient Analysis of Irreversible Demagnetization of Permanent-Magnet Brushless DC Motor With Interturn Fault Under the Operating State. IEEE Transactions on Industry Applications, 2014, 50, 3357-3364.	4.9	50
17	A Comprehensive Review of Winding Short Circuit Fault and Irreversible Demagnetization Fault Detection in PM Type Machines. Energies, 2018, 11, 3309.	3.1	49
18	Detection Technique for Stator Inter-Turn Faults in BLDC Motors Based on Third-Harmonic Components of Line Currents. IEEE Transactions on Industry Applications, 2017, 53, 143-150.	4.9	47

#	Article	IF	Citations
19	Design and Analysis of a Spoke Type Motor With Segmented Pushing Permanent Magnet for Concentrating Air-Gap Flux Density. IEEE Transactions on Magnetics, 2013, 49, 2397-2400.	2.1	46
20	Optimized Design of PMSM With Hybrid-Type Permanent Magnet for Improving Performance and Reliability. IEEE Transactions on Industry Applications, 2019, 55, 4692-4701.	4.9	44
21	Early Detection Technique for Stator Winding Inter-Turn Fault in BLDC Motor Using Input Impedance. IEEE Transactions on Industry Applications, 2015, 51, 240-247.	4.9	41
22	Analysis of PMLSM using three dimensional equivalent magnetic circuit network method. IEEE Transactions on Magnetics, 1997, 33, 4143-4145.	2.1	39
23	Mitigation Method of the Shaft Voltage According to Parasitic Capacitance of the PMSM. IEEE Transactions on Industry Applications, 2017, 53, 4441-4449.	4.9	37
24	Dynamic Characteristic Analysis of Irreversible Demagnetization in SPM- and IPM-Type BLDC Motors. IEEE Transactions on Industry Applications, 2017, 53, 982-990.	4.9	36
25	Comparison of the Fault Characteristics of IPM-Type and SPM-Type BLDC Motors Under Inter-Turn Fault Conditions Using Winding Function Theory. IEEE Transactions on Industry Applications, 2014, 50, 986-994.	4.9	35
26	New Equivalent Circuit of the IPM-Type BLDC Motor for Calculation of Shaft Voltage by Considering Electric and Magnetic Fields. IEEE Transactions on Industry Applications, 2016, 52, 3763-3771.	4.9	33
27	Fuzzy-Logic-Based Vector Control Scheme for Permanent-Magnet Synchronous Motors in Elevator Drive Applications. IEEE Transactions on Industrial Electronics, 2007, 54, 2190-2200.	7.9	32
28	Characteristic analysis of the slotless axial-flux type brushless DC motors using image method. IEEE Transactions on Magnetics, 2006, 42, 1327-1330.	2.1	31
29	A method of optimal design of single-sided linear induction motor for transit. IEEE Transactions on Magnetics, 1997, 33, 4215-4217.	2.1	30
30	Diagnosis Technique Using a Detection Coil in BLDC Motors With Interturn Faults. IEEE Transactions on Magnetics, 2014, 50, 885-888.	2.1	30
31	Detection and Identification of Demagnetization and Bearing Faults in PMSM Using Transfer Learning-Based VGG. Energies, 2020, 13, 3834.	3.1	29
32	3-D analysis of permanent magnet linear synchronous motor with magnet arrangement using equivalent magnetic circuit network method. IEEE Transactions on Magnetics, 1999, 35, 3736-3738.	2.1	27
33	Shape optimization of solenoid actuator using the finite element method and numerical optimization technique. IEEE Transactions on Magnetics, 1997, 33, 4140-4142.	2.1	26
34	Rotor Shape Design of an Interior PM Type BLDC Motor for Improving Mechanical Vibration and EMI Characteristics. Journal of Electrical Engineering and Technology, 2010, 5, 462-467.	2.0	26
35	A Novel Proposal to Improve Reliability of Spoke-Type BLDC Motor Using Ferrite Permanent Magnet. IEEE Transactions on Industry Applications, 2016, 52, 3814-3821.	4.9	25
36	A Direct Redundancy Approach to Fault-Tolerant Control of BLDC Motor With a Damaged Hall-Effect Sensor. IEEE Transactions on Power Electronics, 2020, 35, 1732-1741.	7.9	25

#	Article	IF	Citations
37	Study on 1.5 kW battery chargers for neighborhood electric vehicles. , 2011, , .		24
38	Early detection technique for stator winding inter-turn fault in BLDC motor using input impedance. , 2013, , .		24
39	Optimization Design of PMSM With Hybrid-Type Permanent Magnet Considering Irreversible Demagnetization. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	24
40	Dynamic analysis of radial force density in brushless DC motor using 3-D equivalent magnetic circuit network method. IEEE Transactions on Magnetics, 1998, 34, 3142-3145.	2.1	23
41	Improvement in Stability and Operating Characteristics of HTS Coil Using MIT Material. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-4.	1.7	23
42	Shaft-to-Frame Voltage Mitigation Method by Changing Winding-to-Rotor Parasitic Capacitance of IPMSM. IEEE Transactions on Industry Applications, 2019, 55, 1430-1436.	4.9	23
43	A method for reduction of cogging torque in brushless DC motor considering the distribution of magnetization by 3DEMCN. IEEE Transactions on Magnetics, 1998, 34, 3532-3535.	2.1	22
44	Lateral characteristic analysis of PMLSM considering overhang effect by 3 dimensional equivalent magnetic circuit network method. IEEE Transactions on Magnetics, 1998, 34, 3528-3531.	2.1	20
45	Analysis of Inter-Turn-Short Fault in an FSCW IPM Type Brushless Motor Considering Effect of Control Drive. IEEE Transactions on Industry Applications, 2020, 56, 1356-1367.	4.9	20
46	A Torque Angle-Based Fault Detection and Identification Technique for IPMSM. IEEE Transactions on Industry Applications, 2020, 56, 170-182.	4.9	19
47	Analysis of radial forces in 100kW IPM machines for ship considering stator and rotor eccentricity. , 2011, , .		18
48	Fault Detection of Irreversible Demagnetization Based on Space Harmonics According to Equivalent Magnetizing Distribution. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	18
49	Online Diagnosis and Severity Estimation of Partial and Uniform Irreversible Demagnetization Fault in Interior Permanent Magnet Synchronous Motor. , 2019, , .		18
50	Simplified Impedance Modeling and Analysis for Inter-Turn Fault of IPM-type BLDC motor. Journal of Power Electronics, 2012, 12, 10-18.	1.5	18
51	Modeling of switched reluctance motor using Fourier series for performance analysis. Journal of Applied Physics, 2003, 93, 8781-8783.	2.5	17
52	Analysis of Single-Phase Line-Start Permanent-Magnet Motor Considering Iron Loss and Parameter Variation With Load Angle. IEEE Transactions on Industry Applications, 2004, 40, 797-805.	4.9	13
53	The shape design of interior type permanent magnet BLDC motor for minimization of mechanical vibration. , 2009, , .		13
54	Three-dimensional characteristic analysis of micro BLDC motor according to slotless winding shape. IEEE Transactions on Magnetics, 2003, 39, 2989-2991.	2.1	12

#	Article	IF	Citations
55	Analysis and Design of Slotted Tubular Linear Actuator for the Eco-Pedal System of a Vehicle. IEEE Transactions on Magnetics, 2012, 48, 939-942.	2.1	12
56	Simplified Equivalent Model of PMSM With Inter-Turn Fault. IEEE Transactions on Industry Applications, 2019, 55, 2629-2636.	4.9	12
57	Inter-turn fault analysis of IPM type BLDC motor using fault impedance modeling. , 2011, , .		11
58	Design and analysis of neodymium free SPOKE-type motor with segmented wing shape permanent-magnet for concentrating flux density. , 2013, , .		11
59	Quasi-Zero Torque Pulsation of Surface Permanent Magnet Synchronous Motor for Ship Gyro Stabilizer by Pole/Slot Number and Air-Gap Designs. IEEE Transactions on Magnetics, 2014, 50, 797-800.	2.1	11
60	2G HTS Magnet With Smart Insulation Method. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-4.	1.7	11
61	3-D time-stepping analysis of induction motor by new equivalent magnetic circuit network method. IEEE Transactions on Magnetics, 2001, 37, 3225-3228.	2.1	10
62	Prediction of Torque Characteristic on Barrier-Type SRM Using Stochastic Response Surface Methodology Combined With Moving Least Square. IEEE Transactions on Magnetics, 2004, 40, 738-741.	2.1	10
63	A New Cost Effective SRM Drive using Commercial 6-Switch IGBT Modules. , 0, , .		10
64	Design guideline of DC distribution systems for home appliances: Issues and solution. , 2011, , .		10
65	Comparison of the fault characteristics of IPM-type and SPM-type BLDC motors under Inter-Turn Faults conditions using Winding Function Theory. , 2012, , .		10
66	Diagnosis technique for stator winding inter-turn fault in BLDC motor using detection coil. , 2015, , .		10
67	Enhancement of 2G HTS Coil Stability With V2O3 and Perforated HTS Wire. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.7	10
68	2G HTS Racetrack Coil Protection Using Smart Switching Feature of V₂O₃. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	10
69	Comparison of Fault Characteristics According to Winding Configurations for Dual Three-Phase Synchronous Reluctance Motor. IEEE Transactions on Industry Applications, 2021, 57, 2398-2406.	4.9	10
70	Proposing New Planar-Type Search Coil for Permanent Magnet Synchronous Motor: Design and Application for Position Estimation. IEEE Access, 2021, 9, 129078-129087.	4.2	10
71	Pseudo-sensorless control of PMSM with linear hall-effect sensor. , 2017, , .		9
72	Comparison of Fault Characteristics for Dual Three-Phase Synchronous Reluctance Motor. , 2019, , .		9

#	Article	IF	Citations
73	Characteristic analysis of IPM type BLDC motor considering the demagnetization of PM by stator turn fault. , 2010, , .		8
74	Circulating current calculation using fault modeling of IPM type BLDC motor of inter-turn fault. , 2011, , .		8
75	Novel permanent-magnet-assisted switched reluctance motor (I): Concept, design, and analysis. , 2013, , .		8
76	Determining the Operating Current of No-Insulation Field Coils in HTS Generators. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	8
77	Comparative analysis of scalar and vector control drives of IPMSM under inter-turn fault condition considering nonlinearities. , 2015, , .		8
78	Analysis of cogging torque and torque ripple according to unevenly magnetized permanent magnets pattern in PMSM. , 2017, , .		8
79	The Design and Fabrication of BLDC Motor and Drive for 42V Automotive Applications. , 2007, , .		7
80	Design of a fuel cell generation system using a PEMFC simulator. Electric Power Systems Research, 2007, 77, 1257-1264.	3.6	7
81	Shaft-to-frame voltage suppressing approach by applying eletromagnetic shield in IPMSM. , 2017, , .		7
82	A Novel Fault Diagnosis Technique for IPMSM Using Voltage Angle. , 2018, , .		7
83	Multiple Sensor Fault Detection Algorithm for Fault Tolerant Control of BLDC Motor. Electronics (Switzerland), 2021, 10, 1038.	3.1	7
84	Three dimensional eddy current calculation using magnetic scalar potential in conducting regions. Journal of Applied Physics, 2002, 91, 8314.	2.5	6
85	A Study on Hybrid Energy Storage System for 42V Automotive Power-net. , 2006, , .		6
86	Cost effective PAM inverter for 42V hybrid electric vehicles (HEV). , 2008, , .		6
87	Detection technique for stator inter-turn faults in BLDC motors based on third harmonic components of line currents. , 2015, , .		6
88	Comparison Analysis of Demagnetization and Torque Ripple in Accordance With Freewheeling Current in PM BLDC Motor. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	6
89	Electrical Characteristic Analysis According to Contact Resistance Between Turns of HTS Coil. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-4.	1.7	6
90	Design and Analysis of a Dual Airgap Radial Flux Permanent Magnet Vernier Machine with Yokeless Rotor. Energies, 2021, 14, 2311.	3.1	6

#	Article	IF	Citations
91	Fault Mechanism Analysis of Irreversible Demagnetization Due to the Dynamic Eccentricity of IPMSM for EV Traction. IEEE Access, 2022, 10, 64483-64494.	4.2	6
92	Analysis of permanent magnet linear synchronous motor for servo system using 3-D equivalent magnetic circuit network method. , 0, , .		5
93	Vibration reduction of IPM type BLDC motor using negative third harmonic elimination method of air-gap flux density. , 2010, , .		5
94	Comparison of integrated battery chargers for plug-in hybrid electric vehicles: Topology and control. , 2011, , .		5
95	Magnetic Field Analysis of Irreversible Demagnetization in Brushless DC Motor According to the Dynamic and Static Characteristic. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	5
96	Frame-to-Shaft Voltage and End-to-End Shaft Voltage Analysis According to Eccentricity in IPMSMs. , 2018, , .		5
97	Optimization of Magnetic Flux-path Design for Reduction of Shaft Voltage in IPM-Type BLDC Motor. Journal of Electrical Engineering and Technology, 2014, 9, 2187-2193.	2.0	5
98	Optimal design for cogging torque reduction in BLDC motor using the response surface method. , 2009, , .		4
99	Fault analysis of IPM type BLDC motor using nonlinear modeling of stator inter turn faults. , 2010, , .		4
100	Fault type detection using frequency pattern of stator current in IPM-type BLDC motor under stator inter-turn, dynamic eccentricity, and coupled faults. , 2013, , .		4
101	Optimized design of PMSM with hybrid type permanent magnet for improving performance and reliability. , 2017, , .		4
102	Comparative Analysis of Six-Step and Vector Controlled IPMSM under Inter-Turn Fault. , 2018, , .		4
103	Torque characteristics analysis of dual-airgap spoke-type permanent-magnet Vernier machine considering pole ratio effect. Electrical Engineering, 2020, 102, 1405-1412.	2.0	4
104	A Feasibility Design of PEMFC Parallel Operation for a Fuel Cell Generation System. Journal of Electrical Engineering and Technology, 2008, 3, 408-421.	2.0	4
105	Online Detection of Irreversible Demagnetization Fault with Non-excited Phase Voltage in Brushless DC Motor Drive System. , 2020, , .		4
106	Charging Characteristics of 2G HTS Coils With Insulation, Metal-Insulation, Non-Insulation, and Smart-Insulation Using Circuit Simulations. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5.	1.7	4
107	Performance analysis of a brushless dc motor due to magnetization distribution in a continuous ring magnet. Journal of Applied Physics, 2003, 93, 8778-8780.	2.5	3
108	On the Feasibility of the Brushless DC (BLDC) Motor and Controller for 42V Automotive Cooling Fan System. , 2007, , .		3

#	Article	IF	Citations
109	Calculation of Distributed Magnetic Flux Density under the Stator-Turn Fault Condition. Journal of Power Electronics, 2013, 13, 552-557.	1.5	3
110	Accurate and simple diagnosis algorithm for inter-turn fault in the BLDC motor. , 2013, , .		3
111	Design and analysis of modified spoke type BLDC motor using a ferrite permanent-magnet. , 2014, , .		3
112	Design of an portable emergency power supply with multi input sources. , 2014, , .		3
113	Study of Hybrid-Type Field Coil for Superconducting Rotating Machines. IEEE Transactions on Applied Superconductivity, 2014, 24, 1-4.	1.7	3
114	Study of Magnetomotive Force Control Type Superconducting Magnet Using BSCCO HTS Wire. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4.	1.7	3
115	BEMF characteristic analysis of IPM type motor according to demagnetization pattern of permanent magnet. , 2015, , .		3
116	Shaft-to-frame voltage mitigation method by changing winding-to-rotor parasitic capacitance of IPMSM. , 2017, , .		3
117	Simplified equivalent model of PMSM with inter-turn fault. , 2017, , .		3
118	Application of Perovskite Layer to Rotor for Enhanced Stator-Rotor Capacitance for PMSM Shaft Voltage Reduction. Energies, 2020, 13, 5762.	3.1	3
119	Dual Stator Permanent Magnet Vernier Machine With Yokeless Rotor Having Single Stator Winding for Torque Density Improvement. IEEE Access, 2021, 9, 151155-151166.	4.2	3
120	Irreversible Demagnetization Fault Prognosis in a Permanent Magnet type Machines. , 2020, , .		3
121	Characteristics of 300-Turn Smart Insulation Race-Track Coil in External Fluctuating Magnetic Field. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5.	1.7	3
122	Torque characteristics analysis considering the tolerance of electric machine by stochastic response surface method. , 0, , .		2
123	Development of High-efficiency 42V Cooling Fan Motor for Hybrid Electric Vehicle Applications. , 2006, , .		2
124	Implementation of Low Cost and Advanced Slotless Brushless DC Motor Drive Using PLL Algorithm. Electric Power Components and Systems, 2006, 34, 967-984.	1.8	2
125	Development of an Electric Driven Pump Unit for Electro-Hydraulic Power Steering of 42V Automobile. , 2007, , .		2
126	A Novel Ultrasonic Motor Using Orthogonal Bimorphs. IEEE Transactions on Magnetics, 2007, 43, 1413-1416.	2.1	2

#	Article	IF	Citations
127	Comparative analysis of CCM and DCM modes of interleaved boost converters for fuel cell electric vehicles. , 2009, , .		2
128	A study on the characteristics of wide bandwidth connector for automotive communication. , 2012, , .		2
129	Performance Interpretation Method for Electrical Tractor Based on Model-Based Design. , 2013, , .		2
130	Light-load efficiency improving algorithm in cascaded buck-boost converter. , 2015, , .		2
131	New equivalent circuit of the IPM-type BLDC motor for calculation of shaft voltage by considering electric and magnetic fields. , 2015, , .		2
132	Characteristics of irreversible demagnetization in accordance with phase advance angle in IPM-type BLDC motor. , 2016, , .		2
133	Suppression of Shaft Voltage by Rotor and Magnet Shape Design of IPM-Type High Voltage Motor. Journal of Electrical Engineering and Technology, 2013, 8, 938-944.	2.0	2
134	Design and Analysis of a Permanent-Magnet-Assisted Switched Reluctance Motor. Journal of Electrical Engineering and Technology, 2014, 9, 2209-2217.	2.0	2
135	Shaft Voltage Reduction Method Using Carrier Wave Phase Shift in IPMSM. Energies, 2021, 14, 6924.	3.1	2
136	Dynamic Analysis Algorithm of Irreversible Demagnetization of IPM-type Brushless DC Motor by Stator Turn Fault. Transactions of the Korean Institute of Electrical Engineers, 2013, 62, 1661-1667.	0.1	2
137	Fast and precise position control of linear DC motor for carrier using seek control and neural network. , 0, , .		1
138	3-D analysis of permanent magnet linear synchronous motor with magnet arrangement using EMCN. , 1999, , .		1
139	Analysis of radial force density according to magnetization distribution in BLDC motor using 3-D equivalent magnetic circuit network method. , 0, , .		1
140	High-Speed Position Control of Linear DC Motor for Carrier with Fast Response Using Seek Algorithm and Neural Network. Electric Power Components and Systems, 2004, 32, 109-120.	1.8	1
141	A study on BLDC motor for blower system considering vibration. , 2008, , .		1
142	Analysis of low frequency current ripples in Fuel Cell Electric Vehicles considering driving conditions. , 2009, , .		1
143	A Parallel Operation Algorithm with Power-Sharing Technique for FC Generation Systems. , 2009, , .		1
144	Design of new spoke type brushless DC motor for neodymium permanent magnet free. , 2012, , .		1

#	Article	IF	Citations
145	Transient analysis of irreversible demagnetization of permenent magnet brushless DC motor with stator turn fault under the operating state. , 2013, , .		1
146	Reduction of shaft voltage by the flux-path design in IPM-type BLDC motor. , 2013, , .		1
147	Optimal DC-link voltage balancing control for 3-level half-bridge series resonant DC-DC converter. , 2014, , .		1
148	Dynamic characteristic analysis of irreversible demagnetization in SPM- and IPM- type BLDC motors. , 2015, , .		1
149	A novel proposal to improve reliability of spoke-type BLDC motor using ferrite permanent magnet. , 2015, , .		1
150	Irreversible demagnetization diagnosis of IPM-type BLDC motor using BEMF harmonic characteristics based on space harmonics. , 2015, , .		1
151	Mitigation method of the shaft voltage according to parasitic capacitance of the PMSM. , 2016, , .		1
152	Design technique for PMSM with hybrid type permanent magnet. , 2017, , .		1
153	Distortion voltage compensation in field-weakening region of IPMSM. , 2017, , .		1
154	Accelerated Life Test of Bearing Under Electrical Stress. , 2018, , .		1
155	Accelerated Life Test of Bearing Under Electrical Stress. , 2018, , .		1
156	Mitigation Method of Slot Harmonic Cogging Torque Considering Unevenly Magnetized Permanent Magnets in PMSM. Energies, 2019, 12, 3887.	3.1	1
157	Stochastic Analysis for Influence of Manufacturing Tolerance of Permanent Magnet on Performance of IPMSM. , 2019, , .		1
158	Shape Optimization of Solenoid Actuator Using the Finite Element Method And Numerical Optimization Technique. , 0, , .		0
159	A Method Of Optimal Design Of Single-sided Linear Induction Motor For Transit. , 0, , .		0
160	Analysis Of PMLSM Using 3 Dimensional Equivalent Magnetic Circuit Network. , 0, , .		0
161	A construction method of equivalent circuit and optimization of design variables in single-phase permanent-split capacitor induction motor. , 0, , .		0
162	Three dimensional characteristic analysis of micro BLDC motor according to slotless winding shape. , 0, , .		0

#	Article	IF	Citations
163	Levitation and recovery force analysis of controlled linear synchronous motor by using 3-D EMCN. , 0, , .		0
164	A Novel Ultrasonic motor using Orthogonal Bimorphs. , 0, , .		0
165	The novel method for vibration reduction of IPM type BLDC motor. , 2010, , .		0
166	Design and experiment of 100kW interior permanent magnet machine for ship anti heeling system. , 2012, , .		0
167	Dynamic analysis modeling for reliability increase of IPM-type BLDCM and energy saving under Dynamic Eccentricity—Stator Inter-turn Fault Coupling. , 2012, , .		0
168	Electromagnetic analysis of 100kW IPM machine for ship anti heeling system considering eccentricity and several operating conditions. , 2012, , .		0
169	Suppression of shaft voltage for preventing bearing fault of IPM-type high voltage motor in the electric vehicle. , 2012, , .		0
170	Impedance diagnosis algorism for detecting of Inter-Turn Fault in IPM type motor. , 2012, , .		0
171	Characteristic analysis of Inter-turn Fault in IPM and SPM-type BLDC motor. , 2012, , .		0
172	Analyzing effects of pole/slot combination of IPM type BLDC motor under stator-turn fault condition. , 2012, , .		0
173	Magnetic characteristic analysis for detection of inter-turn fault using winding function theory. , 2012, , .		0
174	Control scheme of a novel permanent-magnet-assisted switched reluctance machine. , 2013, , .		0
175	A Study on the Characteristics of a Helical Shaped Connector for Automotive. , 0, , .		0
176	A Study on Power Characteristic of Electric Motorcycle using Automotive Simulation Models. , 0, , .		0
177	Inter-turn fault tolerant control system in brushless DC motor by using yoke winding. , 2014, , .		0
178	Analysis of an armature reaction effect in the case of a special spoke type BLDC motor using a ferrite permanent-magnet. , 2015, , .		0
179	Reduction method based on looped slot wedges for end to end shaft voltage in inverter driven IPM motor. , 2016, , .		0
180	Simplified equivalent model of PMSM for analyzing influence of inter-turn fault on motor characteristics. , 2017, , .		0

#	Article	IF	Citations
181	Bearing Fault Detection Using Low-Frequency Total Components in phase current. , 2019, , .		0
182	Fault Analysis of IPM type BLDC Motor Using Nonlinear Modeling of Stator Inter Turn Faults. Transactions of the Korean Institute of Electrical Engineers, 2011, 60, 531-537.	0.1	0
183	Fault Tolerance Improvement of IPM Type BLDC Motor Considering Winding Configuration under a Stator Inter-Turn Fault Condition. Transactions of the Korean Institute of Electrical Engineers, 2011, 60, 524-530.	0.1	0
184	Performance Improvement of IPM-type BLDC Motor Using the Influx Method of Spatial Harmonic in Air-gap Flux Density. Transactions of the Korean Institute of Electrical Engineers, 2011, 60, 739-745.	0.1	0
185	A Study on the Control of Electro-Hydraulic Motors Using Ahead Predictive Adaptive Control Method. Transactions of the Korean Institute of Electrical Engineers, 2011, 60, 1360-1365.	0.1	0
186	A Study on the Parameters Estimation of Electro-Hydraulic Servo Systems Using RMSM. Transactions of the Korean Institute of Electrical Engineers, 2011, 60, 1510-1514.	0.1	0
187	Analysis of Electromagnetic Vibration Sources in 100kW Interior Permanent Magnet Motor for Ship Anti-heeling Pump Considering Eccentricity. Transactions of the Korean Institute of Electrical Engineers, 2011, 60, 2230-2235.	0.1	0
188	A Study on Development of 1.5 [kW] Low-cost Battery Charger for NEVs(Neighborhood Electric) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4	0.1	0
189	Early Detection Technique in IPM-type Motor with Stator-Turn Fault using Impedance Parameter. Transactions of the Korean Institute of Electrical Engineers, 2013, 62, 612-619.	0.1	0
190	Demagnetization Detection for IPM-type BLDCMs According to Irreversible Demagnetization Patterns and Pole-Slot Coefficients. Journal of Power Electronics, 2016, 16, 48-56.	1.5	0
191	Simplified d -q Equivalent Circuit of IPMSM Considering Inter-Turn Fault State. Transactions of the Korean Institute of Electrical Engineers, 2016, 65, 1355-1361.	0.1	0
192	Frequency Response Analysis in Motors with Shaft Voltage Mitigation Methods. Transactions of the Korean Institute of Electrical Engineers, 2020, 69, 427-434.	0.1	0
193	Comparison of Frequency Responses of the Motors with Bearing Voltage Reduction Structures. , 2020, , .		0
194	Detection Technique for Manufacturing Imperefection of Rare-earth Magnets on IPMSM. , 2020, , .		0
195	Eccentricity fault diagnosis method using the harmonic extractor in BLDC motor. , 2021, , .		0