Zq Zhu

List of Publications by Year
in descending order

877 papers	33,444 citations	4120 87 h-index	9311 143 g-index
879 all docs	879 docs citations	879 times ranked	7535 citing authors

#	Article	IF	Citations
1	Electrical Machines and Drives for Electric, Hybrid, and Fuel Cell Vehicles. Proceedings of the IEEE, 2007, 95, 746-765.	16.4	1,173
2	Influence of design parameters on cogging torque in permanent magnet machines. IEEE Transactions on Energy Conversion, 2000, 15, 407-412.	3.7	830
3	Instantaneous magnetic field distribution in brushless permanent magnet DC motors. III. Effect of stator slotting. IEEE Transactions on Magnetics, 1993, 29, 143-151.	1.2	584
4	Instantaneous magnetic field distribution in brushless permanent magnet DC motors. I. Open-circuit field. IEEE Transactions on Magnetics, 1993, 29, 124-135.	1.2	555
5	Analysis of electromagnetic performance of flux-switching permanent-magnet Machines by nonlinear adaptive lumped parameter magnetic circuit model. IEEE Transactions on Magnetics, 2005, 41, 4277-4287.	1.2	549
6	Improved analytical model for predicting the magnetic field distribution in brushless permanent-magnet machines. IEEE Transactions on Magnetics, 2002, 38, 229-238.	1.2	395
7	Advanced Flux-Switching Permanent Magnet Brushless Machines. IEEE Transactions on Magnetics, 2010, 46, 1447-1453.	1.2	368
8	An Accurate Subdomain Model for Magnetic Field Computation in Slotted Surface-Mounted Permanent-Magnet Machines. IEEE Transactions on Magnetics, 2010, 46, 1100-1115.	1.2	365
9	Winding Configurations and Optimal Stator and Rotor Pole Combination of Flux-Switching PM Brushless AC Machines. IEEE Transactions on Energy Conversion, 2010, 25, 293-302.	3.7	354
10	Analysis and Optimization of Back EMF Waveform of a Flux-Switching Permanent Magnet Motor. IEEE Transactions on Energy Conversion, 2008, 23, 727-733.	3.7	307
11	Analytical Methods for Minimizing Cogging Torque in Permanent-Magnet Machines. IEEE Transactions on Magnetics, 2009, 45, 2023-2031.	1.2	305
12	Instantaneous magnetic field distribution in brushless permanent magnet DC motors. II. Armature-reaction field. IEEE Transactions on Magnetics, 1993, 29, 136-142.	1.2	300
13	Eddy-current loss in the rotor magnets of permanent-magnet brushless machines having a fractional number of slots per pole. IEEE Transactions on Magnetics, 2005, 41, 2462-2469.	1.2	281
14	Direct Active and Reactive Power Regulation of DFIG Using Sliding-Mode Control Approach. IEEE Transactions on Energy Conversion, 2010, 25, 1028-1039.	3.7	256
15	Direct Active and Reactive Power Regulation of Grid-Connected DC/AC Converters Using Sliding Mode Control Approach. IEEE Transactions on Power Electronics, 2011, 26, 210-222.	5.4	255
16	Improved analytical modelling of rotor eddy current loss in brushless machines equipped with surface-mounted permanent magnets. IET Electric Power Applications, 2004, 151, 641.	1.4	229
17	Direct Torque Control of Brushless DC Drives With Reduced Torque Ripple. IEEE Transactions on Industry Applications, 2005, 41, 599-608.	3.3	227
18	Online Multiparameter Estimation of Nonsalient-Pole PM Synchronous Machines With Temperature Variation Tracking. IEEE Transactions on Industrial Electronics, 2011, 58, 1776-1788.	5.2	217

#	ARTICLE	IF	CITATIONS
19	Analysis of Air-Gap Field Modulation and Magnetic Gearing Effects in Switched Flux Permanent Magnet Machines. IEEE Transactions on Magnetics, 2015, 51, 1-12.	1.2	214
20	Improved Voltage-Vector Sequences on Dead-Beat Predictive Direct Power Control of Reversible Three-Phase Grid-Connected Voltage-Source Converters. IEEE Transactions on Power Electronics, 2013, 28, 254-267.	5.4	213
21	Comparison of PM Brushless Motors, Having Either All Teeth or Alternate Teeth Wound. IEEE Transactions on Energy Conversion, 2006, 21, 95-103.	3.7	201
22	Current Control for Dual Three-Phase Permanent Magnet Synchronous Motors Accounting for Current Unbalance and Harmonics. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2014, 2, 272-284.	3.7	198
23	Analytical prediction of the cogging torque in radial-field permanent magnet brushless motors. IEEE Transactions on Magnetics, 1992, 28, 1371-1374.	1.2	186
24	An Improved Subdomain Model for Predicting Magnetic Field of Surface-Mounted Permanent Magnet Machines Accounting for Tooth-Tips. IEEE Transactions on Magnetics, 2011, 47, 1693-1704.	1.2	184
25	Unbalanced Magnetic Forces in Permanent-Magnet Brushless Machines With Diametrically Asymmetric Phase Windings. IEEE Transactions on Industry Applications, 2007, 43, 1544-1553.	3.3	182
26	Reduction of Both Harmonic Current and Torque Ripple for Dual Three-Phase Permanent-Magnet Synchronous Machine Using Modified Switching-Table-Based Direct Torque Control. IEEE Transactions on Industrial Electronics, 2015, 62, 6671-6683.	5.2	182
27	Hybrid-Excited Flux-Switching Permanent-Magnet Machines With Iron Flux Bridges. IEEE Transactions on Magnetics, 2010, 46, 1726-1729.	1.2	178
28	Online Estimation of the Rotor Flux Linkage and Voltage-Source Inverter Nonlinearity in Permanent Magnet Synchronous Machine Drives. IEEE Transactions on Power Electronics, 2014, 29, 418-427.	5.4	174
29	Investigation of Effectiveness of Sensorless Operation in Carrier-Signal-Injection-Based Sensorless-Control Methods. IEEE Transactions on Industrial Electronics, 2011, 58, 3431-3439.	5.2	172
30	Instantaneous magnetic field distribution in permanent magnet brushless DC motors. IV. Magnetic field on load. IEEE Transactions on Magnetics, 1993, 29, 152-158.	1.2	171
31	Analysis of a Novel Multi-Tooth Flux-Switching PM Brushless AC Machine for High Torque Direct-Drive Applications. IEEE Transactions on Magnetics, 2008, 44, 4313-4316.	1.2	169
32	Multiphase Flux-Switching Permanent-Magnet Brushless Machine for Aerospace Application. IEEE Transactions on Industry Applications, 2009, 45, 1971-1981.	3.3	168
33	Commutation-Torque-Ripple Minimization in Direct-Torque-Controlled PM Brushless DC Drives. IEEE Transactions on Industry Applications, 2007, 43, 1012-1021.	3.3	164
34	Power Electronic Transformer-Based Railway Traction Systems: Challenges and Opportunities. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2017, 5, 1237-1253.	3.7	164
35	Average Torque Separation in Permanent Magnet Synchronous Machines Using Frozen Permeability. IEEE Transactions on Magnetics, 2013, 49, 1202-1210.	1.2	163
36	Analytical Magnetic Field Analysis of Halbach Magnetized Permanent-Magnet Machines. IEEE Transactions on Magnetics, 2004, 40, 1864-1872.	1.2	162

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37	A Novel Hybrid-Excited Switched-Flux Brushless AC Machine for EV/HEV Applications. IEEE Transactions on Vehicular Technology, 2011, 60, 1365-1373.	3.9	161
38	Permanent-Magnet Brushless Machines With Unequal Tooth Widths and Similar Slot and Pole Numbers. IEEE Transactions on Industry Applications, 2005, 41, 584-590.	3.3	156
39	Minimization of Cogging Torque in Axial-Flux Permanent-Magnet Machines: Design Concepts. IEEE Transactions on Magnetics, 2007, 43, 3614-3622.	1.2	156
40	Analysis of Air-Gap Field Modulation and Magnetic Gearing Effect in Fractional-Slot Concentrated-Winding Permanent-Magnet Synchronous Machines. IEEE Transactions on Industrial Electronics, 2018, 65, 3688-3698.	5.2	154
41	Novel Sensorless Control Strategy With Injection of High-Frequency Pulsating Carrier Signal Into Stationary Reference Frame. IEEE Transactions on Industry Applications, 2014, 50, 2574-2583.	3.3	152
42	Influence of Electric Loading and Magnetic Saturation on Cogging Torque, Back-EMF and Torque Ripple of PM Machines. IEEE Transactions on Magnetics, 2012, 48, 2650-2658.	1.2	151
43	Parameter Estimation for Condition Monitoring of PMSM Stator Winding and Rotor Permanent Magnets. IEEE Transactions on Industrial Electronics, 2013, 60, 5902-5913.	5.2	150
44	Comparison of Two-Individual Current Control and Vector Space Decomposition Control for Dual Three-Phase PMSM. IEEE Transactions on Industry Applications, 2017, 53, 4483-4492.	3.3	150
45	A simple method for measuring cogging torque in permanent magnet machines. , 2009, , .		146
46	Influence of Skew and Cross-Coupling on Flux-Weakening Performance of Permanent-Magnet Brushless AC Machines. IEEE Transactions on Magnetics, 2009, 45, 2110-2117.	1.2	146
47	Comparison of Analytical Models of Cogging Torque in Surface-Mounted PM Machines. IEEE Transactions on Industrial Electronics, 2012, 59, 2414-2425.	5.2	142
48	Acoustic noise radiated by PWM-controllel induction machine drives. IEEE Transactions on Industrial Electronics, 2000, 47, 880-889.	5.2	140
49	Comparison of All- and Alternate-Poles-Wound Flux-Switching PM Machines Having Different Stator and Rotor Pole Numbers. IEEE Transactions on Industry Applications, 2010, 46, 1406-1415.	3.3	139
50	Analytical Model for Predicting Maximum Reduction Levels of Vibration and Noise in Switched Reluctance Machine by Active Vibration Cancellation. IEEE Transactions on Energy Conversion, 2011, 26, 36-45.	3.7	138
51	Direct Torque Control of Permanent-Magnet Synchronous Machine Drives With a Simple Duty Ratio Regulator. IEEE Transactions on Industrial Electronics, 2014, 61, 5249-5258.	5.2	138
52	Electromagnetic Performance of Novel Variable Flux Reluctance Machines With DC-Field Coil in Stator. IEEE Transactions on Magnetics, 2013, 49, 3020-3028.	1.2	135
53	Improved Rotor-Position Estimation by Signal Injection in Brushless AC Motors, Accounting for Cross-Coupling Magnetic Saturation. IEEE Transactions on Industry Applications, 2009, 45, 1843-1850.	3.3	131
54	Influence of PWM on the Proximity Loss in Permanent-Magnet Brushless AC Machines. IEEE Transactions on Industry Applications, 2009, 45, 1359-1367.	3.3	127

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55	Novel Partitioned Stator Switched Flux Permanent Magnet Machines. IEEE Transactions on Magnetics, 2015, 51, 1-14.	1.2	125
56	Synthesis of cogging-torque waveform from analysis of a single stator slot. IEEE Transactions on Industry Applications, 2006, 42, 650-657.	3.3	124
57	Influence of slot and pole number combination on radial force and vibration modes in fractional slot PM brushless machines having single- and double-layer windings. , 2009, , .		124
58	A Novel Axial Field Flux-Switching Permanent Magnet Wind Power Generator. IEEE Transactions on Magnetics, 2011, 47, 4457-4460.	1.2	124
59	Analytical Modeling of Open-Circuit Air-Gap Field Distributions in Multisegment and Multilayer Interior Permanent-Magnet Machines. IEEE Transactions on Magnetics, 2009, 45, 3121-3130.	1.2	123
60	An improved method for predicting iron losses in brushless permanent magnet DC drives. IEEE Transactions on Magnetics, 1992, 28, 2997-2999.	1.2	118
61	Flux-Weakening Control of Nonsalient Pole PMSM Having Large Winding Inductance, Accounting for Resistive Voltage Drop and Inverter Nonlinearities. IEEE Transactions on Power Electronics, 2012, 27, 942-952.	5.4	117
62	Investigation of Torque Ripples in Permanent Magnet Synchronous Machines With Skewing. IEEE Transactions on Magnetics, 2013, 49, 1211-1220.	1.2	117
63	Stator/Rotor Pole Combinations and Winding Configurations of Variable Flux Reluctance Machines. IEEE Transactions on Industry Applications, 2014, 50, 3675-3684.	3.3	117
64	Analytical On-Load Subdomain Field Model of Permanent-Magnet Vernier Machines. IEEE Transactions on Industrial Electronics, 2016, 63, 4105-4117.	5.2	115
65	Reduction of Torque and Flux Ripples in Space Vector Modulation-Based Direct Torque Control of Asymmetric Permanent Magnet Synchronous Machine. IEEE Transactions on Power Electronics, 2017, 32, 2976-2986.	5.4	115
66	Electrical machine topologies and technologies for electric, hybrid, and fuel cell vehicles. , 2008, , .		114
67	Influence of Slot Opening on Optimal Stator and Rotor Pole Combination and Electromagnetic Performance of Switched-Flux PM Brushless AC Machines. IEEE Transactions on Industry Applications, 2011, 47, 1681-1691.	3.3	113
68	Coordinated Direct Power Control of DFIG System Without Phase-Locked Loop Under Unbalanced Grid Voltage Conditions. IEEE Transactions on Power Electronics, 2016, 31, 2905-2918.	5.4	110
69	Switched flux permanent magnet machines — Innovation continues. , 2011, , .		109
70	Sensorless Flux-Weakening Control of Permanent-Magnet Brushless Machines Using Third Harmonic Back EMF. IEEE Transactions on Industry Applications, 2004, 40, 1629-1636.	3.3	107
71	Vibration of PM Brushless Machines Having a Fractional Number of Slots Per Pole. IEEE Transactions on Magnetics, 2006, 42, 3395-3397.	1.2	107
72	Modular Three-Phase Permanent-Magnet Brushless Machines for In-Wheel Applications. IEEE Transactions on Vehicular Technology, 2008, 57, 2714-2720.	3.9	107

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73	Stator and Rotor Pole Combinations for Multi-Tooth Flux-Switching Permanent-Magnet Brushless AC Machines. IEEE Transactions on Magnetics, 2008, 44, 4659-4667.	1.2	107
74	Torque Enhancement of Surface-Mounted Permanent Magnet Machine Using Third-Order Harmonic. IEEE Transactions on Magnetics, 2014, 50, 104-113.	1.2	106
75	Rotor resonances of high-speed permanent-magnet brushless machines. IEEE Transactions on Industry Applications, 2002, 38, 1542-1548.	3.3	104
76	Comparative Study of Novel Variable Flux Reluctance Machines With Doubly Fed Doubly Salient Machines. IEEE Transactions on Magnetics, 2013, 49, 3838-3841.	1.2	104
77	Alternate Poles Wound Flux-Switching Permanent-Magnet Brushless AC Machines. IEEE Transactions on Industry Applications, 2010, 46, 790-797.	3.3	102
78	Cogging Torque in Flux-Switching Permanent Magnet Machines. IEEE Transactions on Magnetics, 2009, 45, 4708-4711.	1.2	101
79	Modeling and Investigation of Thermal Characteristics of a Water-Cooled Permanent-Magnet Linear Motor. IEEE Transactions on Industry Applications, 2015, 51, 2086-2096.	3.3	100
80	Predictive current control with current-error correction for PM brushless AC drives. IEEE Transactions on Industry Applications, 2006, 42, 1071-1079.	3.3	98
81	Influence of Nonideal Voltage Measurement on Parameter Estimation in Permanent-Magnet Synchronous Machines. IEEE Transactions on Industrial Electronics, 2012, 59, 2438-2447.	5.2	98
82	Novel Consequent-Pole Hybrid Excited Machine with Separated Excitation Stator. IEEE Transactions on Industrial Electronics, 2016, , 1-1.	5.2	97
83	Novel Dual-Phase-Shift Control With Bidirectional Inner Phase Shifts for a Dual-Active-Bridge Converter Having Low Surge Current and Stable Power Control. IEEE Transactions on Power Electronics, 2017, 32, 4095-4106.	5.4	97
84	Reduction of cogging torque in interior-magnet brushless machines. IEEE Transactions on Magnetics, 2003, 39, 3238-3240.	1.2	95
85	Proximity Loss Study In High Speed Flux-Switching Permanent Magnet Machine. IEEE Transactions on Magnetics, 2009, 45, 4748-4751.	1.2	95
86	Comparison of flux-switching and doubly-salient permanent magnet brushless machines. , 2005, , .		94
87	Three-Dimensional Lumped-Parameter Magnetic Circuit Analysis of Single-Phase Flux-Switching Permanent-Magnet Motor. IEEE Transactions on Industry Applications, 2008, 44, 1701-1710.	3.3	93
88	Analysis and Suppression of Zero Sequence Circulating Current in Open Winding PMSM Drives With Common DC Bus. IEEE Transactions on Industry Applications, 2017, 53, 3609-3620.	3.3	93
89	Influence of Additional Air Gaps Between Stator Segments on Cogging Torque of Permanent-Magnet Machines Having Modular Stators. IEEE Transactions on Magnetics, 2012, 48, 2049-2055.	1.2	92
90	Influence of Slot and Pole Number Combinations on Unbalanced Magnetic Force in PM Machines With Diametrically Asymmetric Windings. IEEE Transactions on Industry Applications, 2013, 49, 19-30.	3.3	92

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91	A Sliding-Mode Direct Power Control Strategy for DFIG Under Both Balanced and Unbalanced Grid Conditions Using Extended Active Power. IEEE Transactions on Power Electronics, 2018, 33, 1313-1322.	5.4	90
92	Identification of Flux Linkage Map of Permanent Magnet Synchronous Machines Under Uncertain Circuit Resistance and Inverter Nonlinearity. IEEE Transactions on Industrial Informatics, 2018, 14, 556-568.	7.2	90
93	Average Torque Improvement of Interior Permanent-Magnet Machine Using Third Harmonic in Rotor Shape. IEEE Transactions on Industrial Electronics, 2014, 61, 5047-5057.	5.2	89
94	Instantaneous Torque Estimation in Sensorless Direct-Torque-Controlled Brushless DC Motors. IEEE Transactions on Industry Applications, 2006, 42, 1275-1283.	3.3	88
95	Investigation on Switching Patterns of Direct Power Control Strategies for Grid-Connected DCâ€“AC Converters Based on Power Variation Rates. IEEE Transactions on Power Electronics, 2011, 26, 3582-3598.	5.4	88
96	Analytical determination of optimal split ratio for permanent magnet brushless motors. IET Electric Power Applications, 2006, 153, 7.	1.4	87
97	Torque Improvement of Five-Phase Surface-Mounted Permanent Magnet Machine Using Third-Order Harmonic. IEEE Transactions on Energy Conversion, 2014, 29, 735-747.	3.7	87
98	Novel Square-Wave Signal Injection Method Using Zero-Sequence Voltage for Sensorless Control of PMSM Drives. IEEE Transactions on Industrial Electronics, 2016, 63, 7444-7454.	5.2	87
99	Winding Inductances of Fractional Slot Surface-Mounted Permanent Magnet Brushless Machines. , 2008, , .		85
100	Comparison of Cogging Torque Reduction in Permanent Magnet Brushless Machines by Conventional and Herringbone Skewing Techniques. IEEE Transactions on Energy Conversion, 2013, 28, 664-674.	3.7	85
101	Partitioned Stator Flux Reversal Machine With Consequent-Pole PM Stator. IEEE Transactions on Energy Conversion, 2015, 30, 1472-1482.	3.7	85
102	Minimization of cogging force in a linear permanent magnet motor. IEEE Transactions on Magnetics, 1998, 34, 3544-3547.	1.2	84
103	Optimal Split Ratio in Fractional-Slot Interior Permanent-Magnet Machines With Non-Overlapping Windings. IEEE Transactions on Magnetics, 2010, 46, 1235-1242.	1.2	84
104	Hybrid-Excited Doubly Salient Synchronous Machine With Permanent Magnets Between Adjacent Salient Stator Poles. IEEE Transactions on Magnetics, 2015, 51, 1-9.	1.2	84
105	Online optimal flux-weakening control of permanent-magnet brushless AC drives. IEEE Transactions on Industry Applications, 2000, 36, 1661-1668.	3.3	83
106	Position-Offset-Based Parameter Estimation Using the Adaline NN for Condition Monitoring of Permanent-Magnet Synchronous Machines. IEEE Transactions on Industrial Electronics, 2015, 62, 2372-2383.	5.2	82
107	Low cost flux-switching brushless AC machines. , 2010, , .		80
108	Quantitative comparison of electromagnetic performance of electrical machines for HEVs/EVs. CES Transactions on Electrical Machines and Systems, 2017, 1, 37-47.	2.7	80

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109	Online Parameter Estimation for Permanent Magnet Synchronous Machines: An Overview. IEEE Access, 2021, 9, 59059-59084.	2.6	80
110	A Spoke-Type IPM Machine With Novel Alternate Airspace Barriers and Reduction of Unipolar Leakage Flux by Step-Staggered Rotor. IEEE Transactions on Industry Applications, 2016, 52, 4789-4797.	3.3	79
111	Analytical Model of Eddy Current Loss in Windings of Permanent-Magnet Machines Accounting for Load. IEEE Transactions on Magnetics, 2012, 48, 2138-2151.	1.2	78
112	An Analytical Model of Unbalanced Magnetic Force in Fractional-Slot Surface-Mounted Permanent Magnet Machines. IEEE Transactions on Magnetics, 2010, 46, 2686-2700.	1.2	77
113	Analytical Model for Predicting Magnet Loss of Surface-Mounted Permanent Magnet Machines Accounting for Slotting Effect and Load. IEEE Transactions on Magnetics, 2012, 48, 107-117.	1.2	77
114	Design and analysis of high-speed brushless permanent magnet motors. , 1997, , .		76
115	Rotor Eddy Current Loss Calculation and Thermal Analysis of Permanent Magnet Motor and Generator. IEEE Transactions on Magnetics, 2011, 47, 4199-4202.	1.2	76
116	Improved Rotor Position Estimation Accuracy by Rotating Carrier Signal Injection Utilizing Zero-Sequence Carrier Voltage for Dual Three-Phase PMSM. IEEE Transactions on Industrial Electronics, 2017, 64, 4454-4462.	5.2	76
117	Permanent Magnet Remagnetizing Physics of a Variable Flux Memory Motor. IEEE Transactions on Magnetics, 2010, 46, 1679-1682.	1.2	75
118	Analytical prediction of electromagnetic performance of surface-mounted PM machines based on subdomain model accounting for tooth-tips. IET Electric Power Applications, 2011, 5, 597.	1.1	75
119	Improved speed estimation in sensorless PM brushless AC drives. IEEE Transactions on Industry Applications, 2002, 38, 1072-1080.	3.3	73
120	Improved Pulsating Signal Injection Using Zero-Sequence Carrier Voltage for Sensorless Control of Dual Three-Phase PMSM. IEEE Transactions on Energy Conversion, 2017, 32, 436-446.	3.7	73
121	Optimal Step-Skew Methods for Cogging Torque Reduction Accounting for Three-Dimensional Effect of Interior Permanent Magnet Machines. IEEE Transactions on Energy Conversion, 2017, 32, 222-232.	3.7	73
122	The influence of finite element discretisation on the prediction of cogging torque in permanent magnet excited motors. IEEE Transactions on Magnetics, 1992, 28, 1080-1083.	1.2	72
123	Comparison of flux switching and surface mounted permanent magnet generators for high-speed applications. IET Electrical Systems in Transportation, 2011, 1, 111.	1.5	72
124	Vibration behaviour of stators of switched reluctance motors. IET Electric Power Applications, 2001, 148, 257.	1.4	71
125	Influence of Flux Gaps on Electromagnetic Performance of Novel Modular PM Machines. IEEE Transactions on Energy Conversion, 2014, 29, 716-726.	3.7	70
126	Modified switchingâ€table strategy for reduction of current harmonics in direct torque controlled dualâ€threeâ€phase permanent magnet synchronous machine drives. IET Electric Power Applications, 2015, 9, 10-19.	1.1	70

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127	Torque Capability Enhancement of Dual Three-Phase PMSM Drive With Fifth and Seventh Current Harmonics Injection. IEEE Transactions on Industry Applications, 2017, 53, 4526-4535.	3.3	70
128	A Novel Variable Flux Memory Machine With Series Hybrid Magnets. IEEE Transactions on Industry Applications, 2017, 53, 4396-4405.	3.3	70
129	Current Harmonics Suppression Strategy for PMSM With Nonsinusoidal Back-EMF Based on Adaptive Linear Neuron Method. IEEE Transactions on Industrial Electronics, 2020, 67, 9164-9173.	5.2	70
130	Sensorless Operation Capability of Surface-Mounted Permanent-Magnet Machine Based on High-Frequency Signal Injection Methods. IEEE Transactions on Industry Applications, 2015, 51, 2161-2171.	3.3	69
131	Torque Improvement of Dual Three-Phase Permanent-Magnet Machine With Third-Harmonic Current Injection. IEEE Transactions on Industrial Electronics, 2015, 62, 6833-6844.	5.2	69
132	A Wound Field Switched Flux Machine With Field and Armature Windings Separately Wound in Double Stators. IEEE Transactions on Energy Conversion, 2015, 30, 772-783.	3.7	69
133	Compensation for Rotor Position Estimation Error due to Cross-Coupling Magnetic Saturation in Signal Injection Based Sensorless Control of PM Brushless AC Motors. , 2007, , .		68
134	Improved Sensorless Control of Permanent-Magnet Synchronous Machine Based on Third-Harmonic Back EMF. IEEE Transactions on Industry Applications, 2014, 50, 1861-1870.	3.3	68
135	Torque Density and Magnet Usage Efficiency Enhancement of Sandwiched Switched Flux Permanent Magnet Machines Using V-Shaped Magnets. IEEE Transactions on Magnetics, 2013, 49, 3834-3837.	1.2	67
136	Electromagnetic Performance of Novel Synchronous Machines With Permanent Magnets in Stator Yoke. IEEE Transactions on Magnetics, 2014, 50, 1-9.	1.2	67
137	Influence of the Rotor Pole Number on Optimal Parameters in Flux-Switching PM Brushless AC Machines by the Lumped-Parameter Magnetic Circuit Model. IEEE Transactions on Industry Applications, 2010, 46, 1381-1388.	3.3	66
138	Analysis and Mitigation of Torsional Vibration of PM Brushless AC/DC Drives With Direct Torque Controller. IEEE Transactions on Industry Applications, 2012, 48, 1296-1306.	3.3	66
139	Determination of Maximum Electromagnetic Torque in PM Brushless Machines Having Two-Segment Halbach Array. IEEE Transactions on Industrial Electronics, 2014, 61, 718-729.	5.2	65
140	Investigation on Operational Envelops and Efficiency Maps of Electrically Excited Machines for Electrical Vehicle Applications. IEEE Transactions on Magnetics, 2015, 51, 1-10.	1.2	65
141	A Variable-Flux Hybrid-PM Switched-Flux Memory Machine for EV/HEV Applications. IEEE Transactions on Industry Applications, 2016, 52, 2203-2214.	3.3	65
142	Novel Partitioned Stator Hybrid Excited Switched Flux Machines. IEEE Transactions on Energy Conversion, 2017, 32, 495-504.	3.7	65
143	Starting Torque of Single-Phase Flux-Switching Permanent Magnet Motors. IEEE Transactions on Magnetics, 2006, 42, 3416-3418.	1.2	64
144	Comparison of Wound-Field Switched-Flux Machines. IEEE Transactions on Industry Applications, 2014, 50, 3314-3324.	3.3	64

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145	Prediction of open-circuit airgap field distribution in brushless machines having an inset permanent magnet rotor topology. IEEE Transactions on Magnetics, 1994, 30, 98-107.	1.2	63
146	Calculation of d- and q-axis inductances of PM brushless ac machines accounting for skew. IEEE Transactions on Magnetics, 2005, 41, 3940-3942.	1.2	63
147	Design of Flux-Switching Permanent Magnet Machine Considering the Limitation of Inverter and Flux-Weakening Capability. Conference Record - IAS Annual Meeting (IEEE Industry Applications) Tj ETQq1 1 0.784314 rgBT /Overlock	3.1	63
148	Influence and Compensation of Inverter Voltage Drop in Direct Torque-Controlled Four-Switch Three-Phase PM Brushless AC Drives. IEEE Transactions on Power Electronics, 2011, 26, 2343-2357.	5.4	63
149	Influence of Pole and Slot Number Combinations on Cogging Torque in Permanent-Magnet Machines With Static and Rotating Eccentricities. IEEE Transactions on Industry Applications, 2014, 50, 3265-3277.	3.3	63
150	A Novel Hybrid-Magnetic-Circuit Variable Flux Memory Machine. IEEE Transactions on Industrial Electronics, 2020, 67, 5258-5268.	5.2	63
151	Comparison of Halbach magnetized brushless machines based on discrete magnet segments or a single ring magnet. IEEE Transactions on Magnetics, 2002, 38, 2997-2999.	1.2	62
152	Mechanical Parameter Estimation of Permanent-Magnet Synchronous Machines With Aiding From Estimation of Rotor PM Flux Linkage. IEEE Transactions on Industry Applications, 2015, 51, 3115-3125.	3.3	62
153	Novel Carrier Signal Injection Method Using Zero Sequence Voltage for Sensorless Control of PMSM Drives. IEEE Transactions on Industrial Electronics, 2015, , 1-1.	5.2	61
154	Analysis of Consequent-Pole Flux Reversal Permanent Magnet Machine With Biased Flux Modulation Theory. IEEE Transactions on Industrial Electronics, 2020, 67, 2107-2121.	5.2	61
155	Modeling of Cross-Coupling Magnetic Saturation in Signal-Injection-Based Sensorless Control of Permanent-Magnet Brushless AC Motors. IEEE Transactions on Magnetics, 2007, 43, 2552-2554.	1.2	60
156	Comparison of electromagnetic performance of brushless motors having magnets in stator and rotor. Journal of Applied Physics, 2008, 103, 07F124.	1.1	60
157	Review of variable-flux permanent magnet machines. , 2011, , .		60
158	Robust Initial Rotor Position Estimation of Permanent-Magnet Brushless AC Machines With Carrier-Signal-Injection-Based Sensorless Control. IEEE Transactions on Industry Applications, 2013, 49, 2602-2609.	3.3	60
159	Hybrid excited permanent magnet machines for electric and hybrid electric vehicles. CES Transactions on Electrical Machines and Systems, 2019, 3, 233-247.	2.7	60
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