

# Zq Zhu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1041046/publications.pdf>

Version: 2024-02-01

877  
papers

33,444  
citations

4146

87  
h-index

9345

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.	21.3	1,173
2	Influence of design parameters on cogging torque in permanent magnet machines. IEEE Transactions on Energy Conversion, 2000, 15, 407-412.	5.2	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.	2.1	584
4	Instantaneous magnetic field distribution in brushless permanent magnet DC motors. I. Open-circuit field. IEEE Transactions on Magnetics, 1993, 29, 124-135.	2.1	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.	2.1	549
6	Improved analytical model for predicting the magnetic field distribution in brushless permanent-magnet machines. IEEE Transactions on Magnetics, 2002, 38, 229-238.	2.1	395
7	Advanced Flux-Switching Permanent Magnet Brushless Machines. IEEE Transactions on Magnetics, 2010, 46, 1447-1453.	2.1	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.	2.1	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.	5.2	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.	5.2	307
11	Analytical Methods for Minimizing Cogging Torque in Permanent-Magnet Machines. IEEE Transactions on Magnetics, 2009, 45, 2023-2031.	2.1	305
12	Instantaneous magnetic field distribution in brushless permanent magnet DC motors. II. Armature-reaction field. IEEE Transactions on Magnetics, 1993, 29, 136-142.	2.1	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.	2.1	281
14	Direct Active and Reactive Power Regulation of DFIG Using Sliding-Mode Control Approach. IEEE Transactions on Energy Conversion, 2010, 25, 1028-1039.	5.2	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.	7.9	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.	4.9	227
18	Online Multiparameter Estimation of Nonsalient-Pole PM Synchronous Machines With Temperature Variation Tracking. IEEE Transactions on Industrial Electronics, 2011, 58, 1776-1788.	7.9	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.	2.1	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.	7.9	213
21	Comparison of PM Brushless Motors, Having Either All Teeth or Alternate Teeth Wound. IEEE Transactions on Energy Conversion, 2006, 21, 95-103.	5.2	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.	5.4	198
23	Analytical prediction of the cogging torque in radial-field permanent magnet brushless motors. IEEE Transactions on Magnetics, 1992, 28, 1371-1374.	2.1	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.	2.1	184
25	Unbalanced Magnetic Forces in Permanent-Magnet Brushless Machines With Diametrically Asymmetric Phase Windings. IEEE Transactions on Industry Applications, 2007, 43, 1544-1553.	4.9	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.	7.9	182
27	Hybrid-Excited Flux-Switching Permanent-Magnet Machines With Iron Flux Bridges. IEEE Transactions on Magnetics, 2010, 46, 1726-1729.	2.1	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.	7.9	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.	7.9	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.	2.1	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.	2.1	169
32	Multiphase Flux-Switching Permanent-Magnet Brushless Machine for Aerospace Application. IEEE Transactions on Industry Applications, 2009, 45, 1971-1981.	4.9	168
33	Commutation-Torque-Ripple Minimization in Direct-Torque-Controlled PM Brushless DC Drives. IEEE Transactions on Industry Applications, 2007, 43, 1012-1021.	4.9	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.	5.4	164
35	Average Torque Separation in Permanent Magnet Synchronous Machines Using Frozen Permeability. IEEE Transactions on Magnetics, 2013, 49, 1202-1210.	2.1	163
36	Analytical Magnetic Field Analysis of Halbach Magnetized Permanent-Magnet Machines. IEEE Transactions on Magnetics, 2004, 40, 1864-1872.	2.1	162

#	ARTICLE	IF	CITATIONS
37	A Novel Hybrid-Excited Switched-Flux Brushless AC Machine for EV/HEV Applications. IEEE Transactions on Vehicular Technology, 2011, 60, 1365-1373.	6.3	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.	4.9	156
39	Minimization of Cogging Torque in Axial-Flux Permanent-Magnet Machines: Design Concepts. IEEE Transactions on Magnetics, 2007, 43, 3614-3622.	2.1	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.	7.9	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.	4.9	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.	2.1	151
43	Parameter Estimation for Condition Monitoring of PMSM Stator Winding and Rotor Permanent Magnets. IEEE Transactions on Industrial Electronics, 2013, 60, 5902-5913.	7.9	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.	4.9	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.	2.1	146
47	Comparison of Analytical Models of Cogging Torque in Surface-Mounted PM Machines. IEEE Transactions on Industrial Electronics, 2012, 59, 2414-2425.	7.9	142
48	Acoustic noise radiated by PWM-controlled induction machine drives. IEEE Transactions on Industrial Electronics, 2000, 47, 880-889.	7.9	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.	4.9	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.	5.2	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.	7.9	138
52	Electromagnetic Performance of Novel Variable Flux Reluctance Machines With DC-Field Coil in Stator. IEEE Transactions on Magnetics, 2013, 49, 3020-3028.	2.1	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.	4.9	131
54	Influence of PWM on the Proximity Loss in Permanent-Magnet Brushless AC Machines. IEEE Transactions on Industry Applications, 2009, 45, 1359-1367.	4.9	127

#	ARTICLE	IF	CITATIONS
55	Novel Partitioned Stator Switched Flux Permanent Magnet Machines. IEEE Transactions on Magnetics, 2015, 51, 1-14.	2.1	125
56	Synthesis of cogging-torque waveform from analysis of a single stator slot. IEEE Transactions on Industry Applications, 2006, 42, 650-657.	4.9	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.	2.1	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.	2.1	123
60	An improved method for predicting iron losses in brushless permanent magnet DC drives. IEEE Transactions on Magnetics, 1992, 28, 2997-2999.	2.1	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.	7.9	117
62	Investigation of Torque Ripples in Permanent Magnet Synchronous Machines With Skewing. IEEE Transactions on Magnetics, 2013, 49, 1211-1220.	2.1	117
63	Stator/Rotor Pole Combinations and Winding Configurations of Variable Flux Reluctance Machines. IEEE Transactions on Industry Applications, 2014, 50, 3675-3684.	4.9	117
64	Analytical On-Load Subdomain Field Model of Permanent-Magnet Vernier Machines. IEEE Transactions on Industrial Electronics, 2016, 63, 4105-4117.	7.9	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.	7.9	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.	4.9	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.	7.9	110
69	Switched flux permanent magnet machines &#x2014; 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.	4.9	107
71	Vibration of PM Brushless Machines Having a Fractional Number of Slots Per Pole. IEEE Transactions on Magnetics, 2006, 42, 3395-3397.	2.1	107
72	Modular Three-Phase Permanent-Magnet Brushless Machines for In-Wheel Applications. IEEE Transactions on Vehicular Technology, 2008, 57, 2714-2720.	6.3	107

#	ARTICLE	IF	CITATIONS
73	Stator and Rotor Pole Combinations for Multi-Tooth Flux-Switching Permanent-Magnet Brushless AC Machines. IEEE Transactions on Magnetics, 2008, 44, 4659-4667.	2.1	107
74	Torque Enhancement of Surface-Mounted Permanent Magnet Machine Using Third-Order Harmonic. IEEE Transactions on Magnetics, 2014, 50, 104-113.	2.1	106
75	Rotor resonances of high-speed permanent-magnet brushless machines. IEEE Transactions on Industry Applications, 2002, 38, 1542-1548.	4.9	104
76	Comparative Study of Novel Variable Flux Reluctance Machines With Doubly Fed Doubly Salient Machines. IEEE Transactions on Magnetics, 2013, 49, 3838-3841.	2.1	104
77	Alternate Poles Wound Flux-Switching Permanent-Magnet Brushless AC Machines. IEEE Transactions on Industry Applications, 2010, 46, 790-797.	4.9	102
78	Cogging Torque in Flux-Switching Permanent Magnet Machines. IEEE Transactions on Magnetics, 2009, 45, 4708-4711.	2.1	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.	4.9	100
80	Predictive current control with current-error correction for PM brushless AC drives. IEEE Transactions on Industry Applications, 2006, 42, 1071-1079.	4.9	98
81	Influence of Nonideal Voltage Measurement on Parameter Estimation in Permanent-Magnet Synchronous Machines. IEEE Transactions on Industrial Electronics, 2012, 59, 2438-2447.	7.9	98
82	Novel Consequent-Pole Hybrid Excited Machine with Separated Excitation Stator. IEEE Transactions on Industrial Electronics, 2016, , 1-1.	7.9	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.	7.9	97
84	Reduction of cogging torque in interior-magnet brushless machines. IEEE Transactions on Magnetics, 2003, 39, 3238-3240.	2.1	95
85	Proximity Loss Study In High Speed Flux-Switching Permanent Magnet Machine. IEEE Transactions on Magnetics, 2009, 45, 4748-4751.	2.1	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.	4.9	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.	4.9	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.	2.1	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.	4.9	92

#	ARTICLE	IF	CITATIONS
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.	7.9	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.	11.3	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.	7.9	89
94	Instantaneous Torque Estimation in Sensorless Direct-Torque-Controlled Brushless DC Motors. IEEE Transactions on Industry Applications, 2006, 42, 1275-1283.	4.9	88
95	Investigation on Switching Patterns of Direct Power Control Strategies for Grid-Connected DC-AC Converters Based on Power Variation Rates. IEEE Transactions on Power Electronics, 2011, 26, 3582-3598.	7.9	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.	5.2	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.	7.9	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.	5.2	85
101	Partitioned Stator Flux Reversal Machine With Consequent-Pole PM Stator. IEEE Transactions on Energy Conversion, 2015, 30, 1472-1482.	5.2	85
102	Minimization of cogging force in a linear permanent magnet motor. IEEE Transactions on Magnetics, 1998, 34, 3544-3547.	2.1	84
103	Optimal Split Ratio in Fractional-Slot Interior Permanent-Magnet Machines With Non-Overlapping Windings. IEEE Transactions on Magnetics, 2010, 46, 1235-1242.	2.1	84
104	Hybrid-Excited Doubly Salient Synchronous Machine With Permanent Magnets Between Adjacent Salient Stator Poles. IEEE Transactions on Magnetics, 2015, 51, 1-9.	2.1	84
105	Online optimal flux-weakening control of permanent-magnet brushless AC drives. IEEE Transactions on Industry Applications, 2000, 36, 1661-1668.	4.9	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.	7.9	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.	3.5	80

#	ARTICLE	IF	CITATIONS
109	Online Parameter Estimation for Permanent Magnet Synchronous Machines: An Overview. IEEE Access, 2021, 9, 59059-59084.	4.2	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.	4.9	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.	2.1	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.	2.1	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.	2.1	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.	2.1	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.	7.9	76
117	Permanent Magnet Remagnetizing Physics of a Variable Flux Memory Motor. IEEE Transactions on Magnetics, 2010, 46, 1679-1682.	2.1	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.	1.8	75
119	Improved speed estimation in sensorless PM brushless AC drives. IEEE Transactions on Industry Applications, 2002, 38, 1072-1080.	4.9	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.	5.2	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.	5.2	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.	2.1	72
123	Comparison of flux switching and surface mounted permanent magnet generators for high-speed applications. IET Electrical Systems in Transportation, 2011, 1, 111.	2.4	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.	5.2	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.	1.8	70



#	ARTICLE	IF	CITATIONS
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.	4.9	70
128	A Novel Variable Flux Memory Machine With Series Hybrid Magnets. IEEE Transactions on Industry Applications, 2017, 53, 4396-4405.	4.9	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.	7.9	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.	4.9	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.	7.9	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.	5.2	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.	4.9	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.	2.1	67
136	Electromagnetic Performance of Novel Synchronous Machines With Permanent Magnets in Stator Yoke. IEEE Transactions on Magnetics, 2014, 50, 1-9.	2.1	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.	4.9	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.	4.9	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.	7.9	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.	2.1	65
141	A Variable-Flux Hybrid-PM Switched-Flux Memory Machine for EV/HEV Applications. IEEE Transactions on Industry Applications, 2016, 52, 2203-2214.	4.9	65
142	Novel Partitioned Stator Hybrid Excited Switched Flux Machines. IEEE Transactions on Energy Conversion, 2017, 32, 495-504.	5.2	65
143	Starting Torque of Single-Phase Flux-Switching Permanent Magnet Motors. IEEE Transactions on Magnetics, 2006, 42, 3416-3418.	2.1	64
144	Comparison of Wound-Field Switched-Flux Machines. IEEE Transactions on Industry Applications, 2014, 50, 3314-3324.	4.9	64

#	ARTICLE	IF	CITATIONS
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.	2.1	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.	2.1	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	1.0	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.	7.9	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.	4.9	63
150	A Novel Hybrid-Magnetic-Circuit Variable Flux Memory Machine. IEEE Transactions on Industrial Electronics, 2020, 67, 5258-5268.	7.9	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.	2.1	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.	4.9	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.	7.9	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.	7.9	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.	2.1	60
156	Comparison of electromagnetic performance of brushless motors having magnets in stator and rotor. Journal of Applied Physics, 2008, 103, 07F124.	2.5	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.	4.9	60
159	Hybrid excited permanent magnet machines for electric and hybrid electric vehicles. CES Transactions on Electrical Machines and Systems, 2019, 3, 233-247.	3.5	60
160	A Novel Method for Compensating Inverter Nonlinearity Effects in Carrier Signal Injection-Based Sensorless Control From Positive-Sequence Carrier Current Distortion. IEEE Transactions on Industry Applications, 2011, 47, 1283-1292.	4.9	59
161	Investigation of Forces in Linear Induction Motor Under Different Slip Frequency for Low-Speed Maglev Application. IEEE Transactions on Energy Conversion, 2013, 28, 145-153.	5.2	59
162	Simplified Analytical Optimization and Comparison of Torque Densities Between Electrically Excited and Permanent-Magnet Machines. IEEE Transactions on Industrial Electronics, 2014, 61, 5000-5011.	7.9	59

#	ARTICLE	IF	CITATIONS
163	Synthesis of High Performance Fractional-Slot Permanent-Magnet Machines With Coil-Pitch of Two Slot-Pitches. IEEE Transactions on Energy Conversion, 2014, 29, 758-770.	5.2	59
164	Influence of design parameters on the starting torque of a single-phase PM brushless DC motor. IEEE Transactions on Magnetics, 2000, 36, 3533-3536.	2.1	58
165	Fuzzy Logic Speed Control of Permanent Magnet Synchronous Machine and Feedback Voltage Ripple Reduction in Flux-Weakening Operation Region. IEEE Transactions on Industry Applications, 2020, 56, 1505-1517.	4.9	58
166	Strand-level proximity losses in PM machines designed for high-speed operation. , 2008, , .		57
167	A novel E-core flux-switching PM brushless AC machine. , 2010, , .		57
168	Improved sliding mode model reference adaptive system speed observer for fuzzy control of direct-drive permanent magnet synchronous generator wind power generation system. IET Renewable Power Generation, 2013, 7, 28-35.	3.1	57
169	Quantum Genetic Algorithm-Based Parameter Estimation of PMSM Under Variable Speed Control Accounting for System Identifiability and VSI Nonlinearity. IEEE Transactions on Industrial Electronics, 2015, 62, 2363-2371.	7.9	57
170	Position Offset-Based Parameter Estimation for Permanent Magnet Synchronous Machines Under Variable Speed Control. IEEE Transactions on Power Electronics, 2015, 30, 3438-3446.	7.9	57
171	Analysis of Torque Production in Variable Flux Reluctance Machines. IEEE Transactions on Energy Conversion, 2017, 32, 1297-1308.	5.2	57
172	Influence of Stator Asymmetry on Cogging Torque of Permanent Magnet Brushless Machines. IEEE Transactions on Magnetics, 2008, 44, 3851-3854.	2.1	56
173	Analysis of Windings in Variable Reluctance Resolver. IEEE Transactions on Magnetics, 2015, 51, 1-10.	2.1	56
174	Optimum Injected Harmonics Into Magnet Shape in Multiphase Surface-Mounted PM Machine for Maximum Output Torque. IEEE Transactions on Industrial Electronics, 2017, 64, 4434-4443.	7.9	56
175	PMSM Magnetization State Estimation Based on Stator-Reflected PM Resistance Using High-Frequency Signal Injection. IEEE Transactions on Industry Applications, 2015, 51, 3800-3810.	4.9	55
176	Optimal slot/pole and flux-barrier layer number combinations for synchronous reluctance machines. , 2013, , .		54
177	Design Tradeoff Between Cogging Torque and Torque Ripple in Fractional Slot Surface-Mounted Permanent Magnet Machines. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	53
178	Independent Operation of DFIG-Based WECS Using Resonant Feedback Compensators Under Unbalanced Grid Voltage Conditions. IEEE Transactions on Power Electronics, 2015, 30, 3650-3661.	7.9	53
179	Novel Parallel Hybrid Excited Machines With Separate Stators. IEEE Transactions on Energy Conversion, 2016, 31, 1212-1220.	5.2	53
180	Carrier Signal Injection-Based Sensorless Control for Permanent-Magnet Synchronous Machine Drives Considering Machine Parameter Asymmetry. IEEE Transactions on Industrial Electronics, 2016, 63, 2813-2824.	7.9	53

#	ARTICLE	IF	CITATIONS
181	Comparative Study on Variable Flux Memory Machines With Parallel or Series Hybrid Magnets. IEEE Transactions on Industry Applications, 2019, 55, 1408-1419.	4.9	53
182	A Novel Dual-Stator Hybrid Excited Synchronous Wind Generator. IEEE Transactions on Industry Applications, 2009, 45, 947-953.	4.9	52
183	Cogging Torque Optimization of Flux-Switching Transverse Flux Permanent Magnet Machine. IEEE Transactions on Magnetics, 2013, 49, 2169-2172.	2.1	52
184	Novel Doubly Salient Permanent Magnet Machines With Partitioned Stator and Iron Pieces Rotor. IEEE Transactions on Magnetics, 2015, 51, 1-12.	2.1	52
185	Fast Determination of Moment of Inertia of Permanent Magnet Synchronous Machine Drives for Design of Speed Loop Regulator. IEEE Transactions on Control Systems Technology, 2017, 25, 1816-1824.	5.2	52
186	Analytical Magnetic Field Analysis and Prediction of Cogging Force and Torque of a Linear and Rotary Permanent Magnet Actuator. IEEE Transactions on Magnetics, 2011, 47, 3004-3007.	2.1	51
187	Distortion of Back-EMF and Torque of PM Brushless Machines Due to Eccentricity. IEEE Transactions on Magnetics, 2013, 49, 4927-4936.	2.1	51
188	A Novel Partitioned Stator Flux Reversal Permanent Magnet Linear Machine. IEEE Transactions on Magnetics, 2016, 52, 1-6.	2.1	51
189	Influence of design parameters on output torque of flux-switching permanent magnet machines. , 2008, , .		50
190	A Mechanical Flux Weakening Method for Switched Flux Permanent Magnet Machines. IEEE Transactions on Energy Conversion, 2015, 30, 806-815.	5.2	50
191	A Novel Zero-Sequence Model-Based Sensorless Method for Open-Winding PMSM With Common DC Bus. IEEE Transactions on Industrial Electronics, 2016, 63, 6777-6789.	7.9	50
192	Integrated Field and Armature Current Control for Dual Three-Phase Variable Flux Reluctance Machine Drives. IEEE Transactions on Energy Conversion, 2017, 32, 447-457.	5.2	50
193	Minimizing the Influence of Cogging Torque on Vibration of PM Brushless Machines by Direct Torque Control. IEEE Transactions on Magnetics, 2006, 42, 3512-3514.	2.1	49
194	Comparison of losses and efficiency in alternate flux-switching permanent magnet machines. , 2010, , .		49
195	Analytical Modeling and Analysis of Open-Circuit Magnet Loss in Surface-Mounted Permanent-Magnet Machines. IEEE Transactions on Magnetics, 2012, 48, 1234-1247.	2.1	49
196	Iron loss in permanent-magnet brushless AC machines under maximum torque per ampere and flux weakening control. IEEE Transactions on Magnetics, 2002, 38, 3285-3287.	2.1	48
197	Evaluation of superposition technique for calculating cogging torque in permanent-magnet brushless machines. IEEE Transactions on Magnetics, 2006, 42, 1597-1603.	2.1	48
198	Analysis of Electromagnetic Performance of Halbach PM Brushless Machines Having Mixed Grade and Unequal Height of Magnets. IEEE Transactions on Magnetics, 2013, 49, 1461-1469.	2.1	48

#	ARTICLE	IF	CITATIONS
199	Comparative Studies of Modular and Unequal Tooth PM Machines Either With or Without Tooth Tips. IEEE Transactions on Magnetics, 2014, 50, 1-10.	2.1	48
200	Analysis of Magnetic Gearing Effect in Partitioned Stator Switched Flux PM Machines. IEEE Transactions on Energy Conversion, 2016, 31, 1239-1249.	5.2	48
201	Contribution of Current Harmonics to Average Torque and Torque Ripple in Switched Reluctance Machines. IEEE Transactions on Magnetics, 2017, 53, 1-9.	2.1	48
202	Design and Analysis of Novel Asymmetric-Stator-Pole Flux Reversal PM Machine. IEEE Transactions on Industrial Electronics, 2020, 67, 101-114.	7.9	48
203	Analysis of cogging torque in brushless Machines having nonuniformly distributed stator slots and stepped rotor magnets. IEEE Transactions on Magnetics, 2005, 41, 3910-3912.	2.1	47
204	Eddy Current Loss in the Frame of a Flux-Switching Permanent Magnet Machine. IEEE Transactions on Magnetics, 2006, 42, 3413-3415.	2.1	47
205	A Novel Series Power Quality Controller With Reduced Passive Power Filter. IEEE Transactions on Industrial Electronics, 2017, 64, 773-784.	7.9	47
206	Overview of novel magnetically geared machines with partitioned stators. IET Electric Power Applications, 2018, 12, 595-604.	1.8	47
207	Investigation of Permanent Magnet Brushless Machines Having Unequal-Magnet Height Pole. IEEE Transactions on Magnetics, 2012, 48, 4815-4830.	2.1	46
208	General analytical model for calculating electromagnetic performance of permanent magnet brushless machines having segmented Halbach array. IET Electrical Systems in Transportation, 2013, 3, 57-66.	2.4	46
209	Influence of Stator and Rotor Pole Arcs on Electromagnetic Torque of Variable Flux Reluctance Machines. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	46
210	Performance Comparison of Doubly Salient Reluctance Machine Topologies Supplied by Sinewave Currents. IEEE Transactions on Industrial Electronics, 2016, 63, 4086-4096.	7.9	46
211	Estimation of Winding Resistance and PM Flux-Linkage in Brushless AC Machines by Reduced-Order Extended Kalman Filter. , 2007, , .		45
212	Reduction of On-Load Torque Ripples in Permanent Magnet Synchronous Machines by Improved Skewing. IEEE Transactions on Magnetics, 2013, 49, 3822-3825.	2.1	45
213	On-Load Cogging Torque Calculation in Permanent Magnet Machines. IEEE Transactions on Magnetics, 2013, 49, 2982-2989.	2.1	45
214	A Novel Brushless AC Doubly Salient Stator Slot Permanent Magnet Machine. IEEE Transactions on Energy Conversion, 2016, 31, 283-292.	5.2	45
215	A High-Power Factor Vernier Machine With Coil Pitch of Two Slot Pitches. IEEE Transactions on Magnetics, 2018, 54, 1-5.	2.1	45
216	Recent Development of Halbach Permanent Magnet Machines and Applications. , 2007, , .		44

#	ARTICLE	IF	CITATIONS
217	Integrated Field and Armature Current Control Strategy for Variable Flux Reluctance Machine using Open Winding. IEEE Transactions on Industry Applications, 2015, , 1-1.	4.9	43
218	Comparative Study of Partitioned Stator Machines With Different PM Excitation Stators. IEEE Transactions on Industry Applications, 2016, 52, 199-208.	4.9	43
219	Direct Stator Current Vector Control Strategy of DFIG Without Phase-Locked Loop During Network Unbalance. IEEE Transactions on Power Electronics, 2017, 32, 284-297.	7.9	43
220	Analysis and Reduction of Unipolar Leakage Flux in Series Hybrid Permanent-Magnet Variable Flux Memory Machines. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	43
221	Open-circuit field distribution in a brushless motor with diametrically magnetised PM rotor, accounting for slotting and eddy current effects. IEEE Transactions on Magnetics, 1996, 32, 5070-5072.	2.1	42
222	Analytical Determination of Optimal Split Ratio of E-Core Permanent Magnet Linear Oscillating Actuators. IEEE Transactions on Industry Applications, 2011, 47, 25-33.	4.9	42
223	Comparison of Low-Cost Single-Phase Wound-Field Switched-Flux Machines. IEEE Transactions on Industry Applications, 2014, 50, 3335-3345.	4.9	42
224	Recent advances in variable flux memory machines for traction applications: A review. CES Transactions on Electrical Machines and Systems, 2018, 2, 34-50.	3.5	42
225	Flexible Compensation Strategy for Voltage Source Converter Under Unbalanced and Harmonic Condition Based on a Hybrid Virtual Impedance Method. IEEE Transactions on Power Electronics, 2018, 33, 7656-7673.	7.9	42
226	Improved Transient Simulation of Salient-Pole Synchronous Generators With Internal and Ground Faults in the Stator Winding. IEEE Transactions on Energy Conversion, 2005, 20, 128-134.	5.2	41
227	Effectiveness of Active Noise and Vibration Cancellation for Switched Reluctance Machines Operating Under Alternative Control Strategies. IEEE Transactions on Energy Conversion, 2005, 20, 792-801.	5.2	41
228	Influence of magnet shape on cogging torque and back-emf waveform in permanent magnet machines. , 2005, , .		41
229	Efficiency Improvement of Switched Flux PM Memory Machine Over Interior PM Machine for EV/HEV Applications. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	41
230	A Novel Flux-Switching Permanent Magnet Machine With Overlapping Windings. IEEE Transactions on Energy Conversion, 2017, 32, 172-183.	5.2	41
231	Design and Analysis of a Five-Phase SPM Machine Considering Third Harmonic Current Injection. IEEE Transactions on Energy Conversion, 2018, 33, 1108-1117.	5.2	41
232	Evaluation of Iron Loss Models in Electrical Machines. IEEE Transactions on Industry Applications, 2019, 55, 1461-1472.	4.9	41
233	Multi-Phase Flux-Switching Permanent Magnet Brushless Machine for Aerospace Application. , 2008, , .		40
234	Modeling and Analysis of a Tubular Oscillating Permanent-Magnet Actuator. IEEE Transactions on Industry Applications, 2009, 45, 1961-1970.	4.9	40

#	ARTICLE	IF	CITATIONS
235	Analytical Modeling of Surface-Mounted PM Machines Accounting for Magnet Shaping and Varied Magnet Property Distribution. IEEE Transactions on Magnetics, 2014, 50, 1-11.	2.1	40
236	Flux adjustable permanent magnet machines: A technology status review. Chinese Journal of Electrical Engineering, 2016, 2, 14-30.	3.4	40
237	Torque Improvement in Five-Phase Unequal Tooth SPM Machine by Injecting Third Harmonic Current. IEEE Transactions on Vehicular Technology, 2018, 67, 206-215.	6.3	40
238	Thrust Ripple Analysis on Toroidal-Winding Linear Permanent Magnet Vernier Machine. IEEE Transactions on Industrial Electronics, 2018, 65, 9853-9862.	7.9	40
239	Comparative study of flux-switching and interior permanent magnet machines. , 2007, , .		40
240	Investigation of Torque-Speed Characteristics and Cogging Torque of Fractional-Slot IPM Brushless AC Machines Having Alternate Slot Openings. IEEE Transactions on Industry Applications, 2012, 48, 903-912.	4.9	39
241	Electromagnetic Performance of an 18-Slot/10-Pole Fractional-Slot Surface-Mounted Permanent-Magnet Machine. IEEE Transactions on Industry Applications, 2014, 50, 3685-3696.	4.9	39
242	Comparative Analysis of End Effect in Partitioned Stator Flux Reversal Machines Having Surface-Mounted and Consequent Pole Permanent Magnets. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	39
243	Nonparametric Sensorless Drive Method for Open-Winding PMSM Based on Zero-Sequence Back EMF With Circulating Current Suppression. IEEE Transactions on Power Electronics, 2017, 32, 3808-3817.	7.9	39
244	Permanent Magnet Demagnetization Physics of a Variable Flux Memory Motor. IEEE Transactions on Magnetics, 2009, 45, 4736-4739.	2.1	38
245	Design Tradeoffs Between Stator Core Loss and Torque Ripple in IPM Machines. IEEE Transactions on Industry Applications, 2010, 46, 187-195.	4.9	38
246	Performance comparison between unipolar and bipolar excitations in switched reluctance machine with sinusoidal and rectangular waveforms. , 2011, , .		38
247	Analysis of electromagnetic torque in sinusoidal excited switched reluctance machines having DC bias in excitation. , 2012, , .		38
248	Vibration and noise in novel variable flux reluctance machine with DC-field coil in stator. , 2012, , .		38
249	Cogging Torque Mitigation of Modular Permanent Magnet Machines. IEEE Transactions on Magnetics, 2016, 52, 1-10.	2.1	38
250	A New Iron Loss Model for Temperature Dependencies of Hysteresis and Eddy Current Losses in Electrical Machines. IEEE Transactions on Magnetics, 2018, 54, 1-10.	2.1	38
251	A Hybrid Field Model for Open-Circuit Field Prediction in Surface-Mounted PM Machines Considering Saturation. IEEE Transactions on Magnetics, 2018, 54, 1-12.	2.1	38
252	Performance of halbach magnetized brushless ac motors. IEEE Transactions on Magnetics, 2003, 39, 2992-2994.	2.1	37

#	ARTICLE	IF	CITATIONS
253	Static Characteristics Analysis and Experimental Study of a Novel Axial Field Flux-Switching Permanent Magnet Generator. IEEE Transactions on Magnetics, 2012, 48, 4212-4215.	2.1	37
254	Cross Coupling Effect in Hybrid Magnet Memory Motor. , 2014, , .		37
255	Simplified Analytical Model and Investigation of Open-Circuit AC Winding Loss of Permanent-Magnet Machines. IEEE Transactions on Industrial Electronics, 2014, 61, 4990-4999.	7.9	37
256	Design Synthesis of Switched Flux Hybrid-Permanent Magnet Memory Machines. IEEE Transactions on Energy Conversion, 2017, 32, 65-79.	5.2	37
257	Reduction of Open-Circuit DC-Winding-Induced Voltage in Wound Field Switched Flux Machines by Skewing. IEEE Transactions on Industrial Electronics, 2019, 66, 1715-1726.	7.9	37
258	Influence of design parameters on magnetic gear's torque capability. , 2011, , .		36
259	Analysis of Rotor Core Eddy-Current Losses in Interior Permanent Magnet Synchronous Machines. , 2008, , .		35
260	Analytical prediction of rotor eddy current loss in brushless machines equipped with surface-mounted permanent magnets. I. Magnetostatic field model. , 0, , .		34
261	Overview of recent advances in innovative electrical machines &#x2014; With particular reference to magnetically geared switched flux machines. , 2014, , .		34
262	Novel Stator Electrically Field Excited Synchronous Machines Without Rare-Earth Magnet. IEEE Transactions on Magnetics, 2015, 51, 1-9.	2.1	34
263	Novel Electrical Machines Having Separate PM Excitation Stator. IEEE Transactions on Magnetics, 2015, 51, 1-9.	2.1	34
264	Investigation of Nonoverlapping Stator Wound-Field Synchronous Machines. IEEE Transactions on Energy Conversion, 2015, 30, 1420-1427.	5.2	34
265	Comparative Study of Air-Gap Field Modulation in Flux Reversal and Vernier Permanent Magnet Machines. IEEE Transactions on Magnetics, 2018, 54, 1-6.	2.1	34
266	Calculation of cogging force in a novel slotted linear tubular brushless permanent magnet motor. IEEE Transactions on Magnetics, 1997, 33, 4098-4100.	2.1	33
267	Powder alignment system for anisotropic bonded NdFeB Halbach cylinders. IEEE Transactions on Magnetics, 2000, 36, 3349-3352.	2.1	33
268	A Novel Integrated Power Quality Controller for Microgrid. IEEE Transactions on Industrial Electronics, 2015, 62, 2848-2858.	7.9	33
269	Hybrid-Excited Switched-Flux Hybrid Magnet Memory Machines. IEEE Transactions on Magnetics, 2016, 52, 1-15.	2.1	33
270	Comparative Study of Hybrid PM Memory Machines Having Single- and Dual-Stator Configurations. IEEE Transactions on Industrial Electronics, 2018, 65, 9168-9178.	7.9	33



#	ARTICLE	IF	CITATIONS
271	Optimal split ratio for high-speed permanent magnet brushless DC motors. , 0, , .		32
272	Comparison of Performance of Brushless DC Drives under Direct Torque Control and PWM Current Control. , 2005, , .		32
273	Direct torque control of permanent magnet brushless AC drive with singleâ€phase openâ€circuit fault accounting for influence of inverter voltage drop. IET Electric Power Applications, 2013, 7, 369-380.	1.8	31
274	Iron loss calculation considering temperature influence in nonâ€oriented steel laminations. IET Science, Measurement and Technology, 2016, 10, 846-854.	1.6	31
275	Superposition Method for Cogging Torque Prediction in Permanent Magnet Machines With Rotor Eccentricity. IEEE Transactions on Magnetics, 2016, 52, 1-10.	2.1	31
276	Iron Loss Model for Electrical Machine Fed by Low Switching Frequency Inverter. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	31
277	Initial Rotor Position Estimation Using Zero-Sequence Carrier Voltage for Permanent-Magnet Synchronous Machines. IEEE Transactions on Industrial Electronics, 2017, 64, 149-158.	7.9	31
278	Voltage Imbalance Compensation for Doubly Fed Induction Generator Using Direct Resonant Feedback Regulator. IEEE Transactions on Energy Conversion, 2016, 31, 614-626.	5.2	30
279	Unbalanced magnetic force prediction in permanent magnet machines with rotor eccentricity by improved superposition method. IET Electric Power Applications, 2017, 11, 1095-1104.	1.8	30
280	Iron Loss Model Under DC Bias Flux Density Considering Temperature Influence. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	30
281	Design criteria for brushless dc motors for high-speed sensorless operation. International Journal of Applied Electromagnetics and Mechanics, 2002, 15, 79-87.	0.6	29
282	Comparison of two novel MRAS based strategies for identifying parameters in permanent magnet synchronous motors. International Journal of Automation and Computing, 2010, 7, 516-524.	4.5	29
283	Relationship Between Homopolar Inductor Machine and Wound-Field Synchronous Machine. IEEE Transactions on Industrial Electronics, 2020, 67, 919-930.	7.9	29
284	A Novel Fractional Slot Non-Overlapping Winding Hybrid Excited Machine With Consequent-Pole PM Rotor. IEEE Transactions on Energy Conversion, 2020, 35, 1628-1637.	5.2	29
285	Winding inductances of fractional slot surfaceâ€mounted permanent magnet brushless machines. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2009, 28, 1590-1606.	0.9	28
286	Analytical modeling and investigation of transient response of PM machines with 3-phase short-circuit fault. , 2011, , .		28
287	Electrical machines and powerâ€electronic systems for highâ€power wind energy generation applications. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2012, 32, 34-71.	0.9	28
288	Novel Hybrid-Excited Switched-Flux Machine Having Separate Field Winding Stator. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	28

#	ARTICLE	IF	CITATIONS
289	Influence of Rotor-Pole Number on Electromagnetic Performance in 12-Phase Redundant Switched Flux Permanent Magnet Machines for Wind Power Generation. IEEE Transactions on Industry Applications, 2017, 53, 3305-3316.	4.9	28
290	Analysis and Suppression of Induced Voltage Pulsation in DC Winding of Five-Phase Wound-Field Switched Flux Machines. IEEE Transactions on Energy Conversion, 2019, 34, 1890-1905.	5.2	28
291	Comparison of radial vibration forces in 10-pole/12-slot fractional slot surface-mounted and interior PM brushless AC machines. , 2010, , .		27
292	Individual and global optimization of switched flux permanent magnet motors. , 2011, , .		27
293	Flux-Weakening Control Performance of Partitioned Stator-Switched Flux PM Machines. IEEE Transactions on Industry Applications, 2016, 52, 2350-2359.	4.9	27
294	Partitioned Stator Machines With NdFeB and Ferrite Magnets. IEEE Transactions on Industry Applications, 2017, 53, 1870-1882.	4.9	27
295	On-Load Field Prediction of Surface-Mounted PM Machines Considering Nonlinearity Based on Hybrid Field Model. IEEE Transactions on Magnetics, 2019, 55, 1-11.	2.1	27
296	Comparative Studies of Torque Performance Improvement for Different Doubly Salient Synchronous Reluctance Machines by Current Harmonic Injection. IEEE Transactions on Energy Conversion, 2019, 34, 1094-1104.	5.2	27
297	Influence of rotor pole number on electromagnetic performance of novel variable flux reluctance machine with DC-field coil in stator. , 2012, , .		26
298	Novel Modular-Rotor Switched-Flux Permanent Magnet Machines. IEEE Transactions on Industry Applications, 2012, 48, 2249-2258.	4.9	26
299	Improved Rotor Position Estimation in Sensorless-Controlled Permanent-Magnet Synchronous Machines Having Asymmetric-EMF With Harmonic Compensation. IEEE Transactions on Industrial Electronics, 2015, 62, 6131-6139.	7.9	26
300	Control strategy for hybrid-excited switched-flux permanent magnet machines. IET Electric Power Applications, 2015, 9, 612-619.	1.8	26
301	Novel High-Performance Switched Flux Hybrid Magnet Memory Machines With Reduced Rare-Earth Magnets. IEEE Transactions on Industry Applications, 2016, 52, 3901-3915.	4.9	26
302	Permanent-Magnet Magnetization State Estimation Using High-Frequency Signal Injection. IEEE Transactions on Industry Applications, 2016, 52, 2930-2940.	4.9	26
303	Flexible PCC Voltage Unbalance Compensation Strategy for Autonomous Operation of Parallel DFIGs. IEEE Transactions on Industry Applications, 2017, 53, 4807-4820.	4.9	26
304	Cascaded Direct Torque Control of Unbalanced PMSM With Low Torque and Flux Ripples. IEEE Transactions on Power Electronics, 2018, 33, 1740-1749.	7.9	26
305	Influence of Gear Ratio on the Performance of Fractional Slot Concentrated Winding Permanent Magnet Machines. IEEE Transactions on Industrial Electronics, 2019, 66, 7593-7602.	7.9	26
306	Analysis and Reduction of On-Load DC Winding Induced Voltage in Wound Field Switched Flux Machines. IEEE Transactions on Industrial Electronics, 2020, 67, 2655-2666.	7.9	26

#	ARTICLE	IF	CITATIONS
307	Comparative Analysis of Flux Reversal Permanent Magnet Machines With Toroidal and Concentrated Windings. IEEE Transactions on Industrial Electronics, 2020, 67, 5278-5290.	7.9	26
308	Slotless brushless permanent magnet machines: influence of design parameters. IEEE Transactions on Energy Conversion, 1999, 14, 686-691.	5.2	25
309	Analysis and Optimization of Back-EMF Waveform of a Novel Flux-Switching Permanent Magnet Motor. , 2007, , .		25
310	Fault-Tolerant Flux-Switching Permanent Magnet Brushless AC Machines. , 2008, , .		25
311	Magnetic field analysis of a novel flux switching transverse flux permanent magnet wind generator with 3-D FEM. , 2009, , .		25
312	Investigation of PWMs on vibration and noise in SRM with sinusoidal bipolar excitation. , 2012, , .		25
313	Design of synchronous reluctance and permanent magnet synchronous reluctance machines for electric vehicle application. , 2014, , .		25
314	Comparative study of novel biased flux permanent magnet machine with doubly salient permanent magnet machine. , 2014, , .		25
315	Analysis of Eccentricity in Permanent-Magnet Tubular Machines. IEEE Transactions on Industrial Electronics, 2014, 61, 2208-2216.	7.9	25
316	Investigation of Saliency in a Switched-Flux Permanent-Magnet Machine Using High-Frequency Signal Injection. IEEE Transactions on Industrial Electronics, 2014, 61, 5094-5104.	7.9	25
317	Analytical Modeling of Modular and Unequal Tooth Width Surface-Mounted Permanent Magnet Machines. IEEE Transactions on Magnetics, 2015, 51, 1-9.	2.1	25
318	Analytical Synthesis of Air-Gap Field Distribution in Permanent Magnet Machines With Rotor Eccentricity by Superposition Method. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	25
319	Comparative Study of Torque Production in Conventional and Mutually Coupled SRMs Using Frozen Permeability. IEEE Transactions on Magnetics, 2016, 52, 1-9.	2.1	25
320	Modularity techniques in high performance permanent magnet machines and applications. CES Transactions on Electrical Machines and Systems, 2018, 2, 93-103.	3.5	25
321	Improved Direct Torque Control Method for Dual-Three-Phase Permanent-Magnet Synchronous Machines With Back EMF Harmonics. IEEE Transactions on Industrial Electronics, 2021, 68, 9319-9333.	7.9	25
322	Suppression of Major Current Harmonics for Dual Three-Phase PMSMs by Virtual Multi Three-Phase Systems. IEEE Transactions on Industrial Electronics, 2022, 69, 5478-5490.	7.9	25
323	Novel Magnetic-Field-Shifting Techniques in Asymmetric Rotor Pole Interior PM Machines With Enhanced Torque Density. IEEE Transactions on Magnetics, 2022, 58, 1-10.	2.1	25
324	Permanent Magnet Machines for High-Speed Applications. World Electric Vehicle Journal, 2022, 13, 18.	3.0	25

#	ARTICLE	IF	CITATIONS
325	Comparison of analytical models for predicting cogging torque in surface-mounted PM machines. , 2010, , .		24
326	Flux-Regulatable Characteristics Analysis of a Novel Switched-Flux Surface-Mounted PM Memory Machine. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	24
327	Performance investigation of hybrid excited switched flux permanent magnet machines using frozen permeability method. IET Electric Power Applications, 2015, 9, 586-594.	1.8	24
328	Direct power control of doubly fed induction generator without phase-locked loop in synchronous reference frame during frequency variations. IET Renewable Power Generation, 2015, 9, 576-586.	3.1	24
329	Improved Sensorless Control of Switched-Flux Permanent-Magnet Synchronous Machines Based on Different Winding Configurations. IEEE Transactions on Industrial Electronics, 2016, 63, 123-132.	7.9	24
330	Design guidelines for fractional slot multi-phase modular permanent magnet machines. IET Electric Power Applications, 2017, 11, 1023-1031.	1.8	24
331	Combined Multiphysics Model of Switched Flux PM Machines Under Fault Operations. IEEE Transactions on Industrial Electronics, 2019, 66, 6737-6745.	7.9	24
332	Influence of Adjacent Teeth Magnet Polarities on the Performance of Flux Reversal Permanent Magnet Machine. IEEE Transactions on Industry Applications, 2019, 55, 354-365.	4.9	24
333	Electromagnetic Performance Comparison Between 12-Phase Switched Flux and Surface-Mounted PM Machines for Direct-Drive Wind Power Generation. IEEE Transactions on Industry Applications, 2020, 56, 1408-1422.	4.9	24
334	Investigation of DC Winding Induced Voltage in Hybrid-Excited Switched-Flux Permanent Magnet Machine. IEEE Transactions on Industry Applications, 2020, 56, 3594-3603.	4.9	24
335	A Commutation Error Compensation Strategy for High-Speed Brushless DC Drive Based on Adaline Filter. IEEE Transactions on Industrial Electronics, 2021, 68, 3728-3738.	7.9	24
336	A Hybrid Lumped-Parameter and Two-Dimensional Analytical Thermal Model for Electrical Machines. IEEE Transactions on Industry Applications, 2021, 57, 246-258.	4.9	24
337	Rotor Stress Analysis of High-Speed Permanent Magnet Machines With Segmented Magnets Retained by Carbon-Fibre Sleeve. IEEE Transactions on Energy Conversion, 2021, 36, 971-983.	5.2	24
338	A Novel Spoke-Type Asymmetric Rotor Interior Permanent Magnet Machine. IEEE Transactions on Industry Applications, 2021, 57, 4840-4851.	4.9	24
339	A Novel Asymmetric Interior Permanent Magnet Machine for Electric Vehicles. IEEE Transactions on Energy Conversion, 2021, 36, 2404-2415.	5.2	24
340	Advances in Dual-Three-Phase Permanent Magnet Synchronous Machines and Control Techniques. Energies, 2021, 14, 7508.	3.1	24
341	Dc-link capacitance requirement and noise and vibration reduction in 6/4 switched reluctance machine with sinusoidal bipolar excitation. , 2011, , .		23
342	On-Load Voltage Distortion in Fractional-Slot Interior Permanent Magnet Machines. IEEE Transactions on Magnetics, 2015, 51, 1-9.	2.1	23

#	ARTICLE	IF	CITATIONS
343	Demagnetization Withstand Capability Enhancement of Surface Mounted PM Machines Using Stator Modularity. IEEE Transactions on Industry Applications, 2018, 54, 1302-1311.	4.9	23
344	Analysis of Novel Consequent Pole Flux Reversal Permanent Magnet Machines. IEEE Transactions on Industry Applications, 2021, 57, 382-396.	4.9	23
345	Virtual Third Harmonic Back EMF-Based Sensorless Drive for High-Speed BLDC Motors Considering Machine Parameter Asymmetries. IEEE Transactions on Industry Applications, 2021, 57, 306-315.	4.9	23
346	Investigation of Hybrid-Magnet-Circuit Variable Flux Memory Machines With Different Hybrid Magnet Configurations. IEEE Transactions on Industry Applications, 2021, 57, 340-351.	4.9	23
347	Winding inductances of brushless machines with surface-mounted magnets. , 0, , .		22
348	Eddy current loss in a moving-coil tubular permanent magnet motor. IEEE Transactions on Magnetics, 1999, 35, 3601-3603.	2.1	22
349	Analytical prediction of rotor eddy current loss in brushless machines equipped with surface-mounted permanent magnets. II. Accounting for eddy current reaction field. , 0, , .		22
350	Analytical optimisation of external rotor permanent magnet machines. IET Electrical Systems in Transportation, 2013, 3, 41-49.	2.4	22
351	Excitation Winding Short-Circuits in Hybrid Excitation Permanent Magnet Motor. IEEE Transactions on Energy Conversion, 2014, 29, 567-575.	5.2	22
352	Comparison of Partitioned Stator Switched Flux Permanent Magnet Machines Having Single- or Double-Layer Windings. IEEE Transactions on Magnetics, 2016, 52, 1-10.	2.1	22
353	Comparative Study of Novel Tubular Partitioned Stator Permanent Magnet Machines. IEEE Transactions on Magnetics, 2016, 52, 1-7.	2.1	22
354	Comparative Study of Fault-Tolerant Switched-Flux Permanent-Magnet Machines. IEEE Transactions on Industrial Electronics, 2017, 64, 1939-1948.	7.9	22
355	Mitigation of Unbalanced Magnetic Force in a PM Machine With Asymmetric Winding by Inserting Auxiliary Slots. IEEE Transactions on Industry Applications, 2018, 54, 4133-4146.	4.9	22
356	Influence of Stator Topologies on Average Torque and Torque Ripple of Fractional-Slot SPM Machines With Fully Closed Slots. IEEE Transactions on Industry Applications, 2018, 54, 2151-2164.	4.9	22
357	Analysis of Flux-Reversal Permanent-Magnet Machines With Different Consequent-Pole PM Topologies. IEEE Transactions on Magnetics, 2018, 54, 1-5.	2.1	22
358	Recent developments and comparative study of magnetically geared machines. CES Transactions on Electrical Machines and Systems, 2018, 2, 13-22.	3.5	22
359	Optimal Number of Flux Modulation Pole in Vernier Permanent Magnet Synchronous Machines. IEEE Transactions on Industry Applications, 2019, 55, 5747-5757.	4.9	22
360	A Review on Transverse Flux Permanent Magnet Machines for Wind Power Applications. IEEE Access, 2020, 8, 216543-216565.	4.2	22

#	ARTICLE	IF	CITATIONS
361	Influence of Machine Topology and Cross-Coupling Magnetic Saturation on Rotor Position Estimation Accuracy in Extended Back-EMF Based Sensorless PM Brushless AC Drives. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2007, , .	0.0	21
362	Comparative Study of Novel Variable-Flux Memory Machines Having Stator Permanent Magnet Topologies. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	21
363	Uncontrolled Generator Fault Protection of Novel Hybrid-Excited Doubly Salient Synchronous Machines With Field Excitation Current Control. IEEE Transactions on Industry Applications, 2019, 55, 3598-3606.	4.9	21
364	System-Level Investigation of Multi-MW Direct-Drive Wind Power PM Vernier Generators. IEEE Access, 2020, 8, 191433-191446.	4.2	21
365	Switching-Table-Based Direct Torque Control of Dual Three-Phase PMSMs With Closed-Loop Current Harmonics Compensation. IEEE Transactions on Power Electronics, 2021, 36, 10645-10659.	7.9	21
366	Permanent Magnet Vernier Machines for Direct-Drive Offshore Wind Power: Benefits and Challenges. IEEE Access, 2022, 10, 20652-20668.	4.2	21
367	Influence of inaccuracies in machine parameters on field-weakening performance of PM brushless AC drives. , 0, , .		20
368	Direct torque control of brushless DC drives with reduced torque ripple. , 0, , .		20
369	Flux-Weakening Characteristics of Trapezoidal Back-EMF Machines in Brushless DC and AC Modes. , 2006, , .		20
370	Flux-switching PM Brushless Machines with Alternative Stator and Rotor Pole Combinations. Journal of Asian Electric Vehicles, 2008, 6, 1103-1110.	0.4	20
371	Direct torque control of three-phase PM brushless AC motor with one phase open-circuit fault. , 2009, , .		20
372	Evaluation of efficiency optimized variable flux reluctance machine for EVs/HEVs by comparing with interior PM machine. , 2014, , .		20
373	Comparative study of the electromagnetic performance of switched flux permanent magnet machines. IET Electric Power Applications, 2015, 9, 297-306.	1.8	20
374	On-Load Voltage Distortion in Fractional Slot Surface-Mounted Permanent Magnet Machines Considering Local Magnetic Saturation. IEEE Transactions on Magnetics, 2015, 51, 1-10.	2.1	20
375	Hybrid-Excited Stator Slot Permanent Magnet Machinesâ€™ Influence of Stator and Rotor Pole Combinations. IEEE Transactions on Magnetics, 2016, 52, 1-10.	2.1	20
376	Investigation on synchronous reluctance machines with different rotor topologies and winding configurations. IET Electric Power Applications, 2018, 12, 45-53.	1.8	20
377	Analysis and Suppression of Rotor Eccentricity Effects on Fundamental Model Based Sensorless Control of Permanent Magnet Synchronous Machine. IEEE Transactions on Industry Applications, 2020, 56, 4896-4905.	4.9	20
378	Principle Investigation and Performance Comparison of Consequent-Pole Switched Flux PM Machines. IEEE Transactions on Transportation Electrification, 2021, 7, 766-778.	7.8	20

#	ARTICLE	IF	CITATIONS
379	Improved Rotor Position Estimation in Extended Back-EMF Based Sensorless PM Brushless AC Drives with Magnetic Saliency. , 2007, , .		19
380	Optimal torque matching of a magnetic gear within a permanent magnet machine. , 2011, , .		19
381	A Dual-Consequent-Pole Vernier Memory Machine. Energies, 2016, 9, 134.	3.1	19
382	Torque Improvement of Dual Three-Phase Permanent Magnet Machine Using Zero Sequence Components. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	19
383	Overview of Hybrid Excited Machines for Electric Vehicles. , 2019, , .		19
384	A Comparative Study on Nine- and Twelve-Phase Flux-Switching Permanent-Magnet Wind Power Generators. IEEE Transactions on Industry Applications, 2019, 55, 3607-3616.	4.9	19
385	Investigation of Torque Production and Torque Ripple Reduction for Six-Stator/Seven-Rotor-Pole Variable Flux Reluctance Machines. IEEE Transactions on Industry Applications, 2019, 55, 2510-2518.	4.9	19
386	Analysis of Spoke Array Permanent Magnet Flux Reversal Machines. IEEE Transactions on Energy Conversion, 2020, 35, 1688-1696.	5.2	19
387	Analysis and reduction of magnet Eddy current loss in flux-switching permanent magnet machines. , 2008, , .		18
388	Mechanically adjusted variable-flux concept for switched-flux permanent-magnet machines. , 2011, , .		18
389	Improved torque regulator to reduce steady-state error of torque response for direct torque control of permanent magnet synchronous machine drives. IET Electric Power Applications, 2014, 8, 108-116.	1.8	18
390	Novel reluctance axis shifted machines with hybrid rotors. , 2017, , .		18
391	Optimal Number of Magnet Pieces of Flux Reversal Permanent Magnet Machines. IEEE Transactions on Energy Conversion, 2019, 34, 889-898.	5.2	18
392	Improved Duty-Ratio-Based Direct Torque Control for Dual Three-Phase Permanent Magnet Synchronous Machine Drives. IEEE Transactions on Industry Applications, 2019, 55, 5843-5853.	4.9	18
393	A Novel Modular Stator Hybrid-Excited Doubly Salient Synchronous Machine With Stator Slot Permanent Magnets. IEEE Transactions on Magnetics, 2019, 55, 1-9.	2.1	18
394	Stepwise Magnetization Control Strategy for DC-Magnetized Memory Machine. IEEE Transactions on Industrial Electronics, 2019, 66, 4273-4285.	7.9	18
395	Six-Phase Pole-Changing Winding Induction Machines With Improved Performance. IEEE Transactions on Energy Conversion, 2021, 36, 534-546.	5.2	18
396	Investigation of Novel Fractional Slot Nonoverlapping Winding Hybrid Excited Machines With Different Rotor Topologies. IEEE Transactions on Industry Applications, 2021, 57, 468-480.	4.9	18

#	ARTICLE	IF	CITATIONS
397	Estimation of 3-D Magnet Temperature Distribution Based on Lumped-Parameter and Analytical Hybrid Thermal Model for SPMSM. IEEE Transactions on Energy Conversion, 2022, 37, 515-525.	5.2	18
398	Investigation of Unbalanced Magnetic Force in Fractional-Slot Permanent Magnet Machines Having an Odd Number of Stator Slots. IEEE Transactions on Energy Conversion, 2020, 35, 1954-1963.	5.2	18
399	Analysis of anisotropic bonded NdFeB Halbach cylinders accounting for partial powder alignment. IEEE Transactions on Magnetics, 2000, 36, 3575-3577.	2.1	17
400	Comparison of alternate analytical models for predicting cogging torque in surface-mounted permanent magnet machines. , 2008, , .		17
401	Influence of slot opening on optimal stator and rotor pole combination and electromagnetic performance of flux-switching PM brushless AC machines. , 2010, , .		17
402	Optimization of linear flux switching permanent magnet motor. , 2010, , .		17
403	Analytical Modeling of Claw-Pole Stator SPM Brushless Machine Having SMC Stator Core. IEEE Transactions on Magnetics, 2013, 49, 3830-3833.	2.1	17
404	Comparison between induction machine and interior permanent magnet machine for electric vehicle application. , 2014, , .		17
405	Performance Analysis of Synchronous Reluctance Machines Having Nonoverlapping Concentrated Winding and Sinusoidal Bipolar With DC Bias Excitation. IEEE Transactions on Industry Applications, 2014, 50, 3346-3356.	4.9	17
406	Analysis of Novel Multi-Tooth Variable Flux Reluctance Machines With Different Stator and Rotor Pole Combinations. IEEE Transactions on Magnetics, 2015, 51, 1-11.	2.1	17
407	Electromagnetic Performance of Nonoverlapping Stator Wound Field Synchronous Machine With Salient Pole Rotor. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	17
408	Influence of magnetic saturation on rotor bar current waveform and performance in induction machines. , 2016, , .		17
409	Carrier signal injectionâ€based sensorless control for permanent magnet synchronous machine drives with tolerance of signal processing delays. IET Electric Power Applications, 2017, 11, 1140-1149.	1.8	17
410	Influence of rotor slot number on rotor bar current waveform and performance in induction machines. , 2017, , .		17
411	Comparative study of variable flux memory machines with parallel and series hybrid magnets. , 2017, , .		17
412	Novel Modular Switched Reluctance Machines for Performance Improvement. IEEE Transactions on Energy Conversion, 2018, 33, 1255-1265.	5.2	17
413	Synthesis of Hybrid Magnet Memory Machines Having Separate Stators for Traction Applications. IEEE Transactions on Vehicular Technology, 2018, 67, 183-195.	6.3	17
414	Influence of DC Winding Configuration on Its Induced Voltage in Wound Field Machines. IEEE Transactions on Energy Conversion, 2018, 33, 1825-1836.	5.2	17



#	ARTICLE	IF	CITATIONS
415	A Novel Parallel Hybrid Excited Machine With Enhanced Flux Regulation Capability. IEEE Transactions on Energy Conversion, 2019, 34, 1938-1949.	5.2	17
416	Scaling Effect on Electromagnetic Performance of Surface-Mounted Permanent-Magnet Vernier Machine. IEEE Transactions on Magnetics, 2020, 56, 1-15.	2.1	17
417	A Simple Sensorless Position Error Correction Method for Dual Three-Phase Permanent Magnet Synchronous Machines. IEEE Transactions on Energy Conversion, 2021, 36, 895-906.	5.2	17
418	Effect of Pole Shaping on Torque Characteristics of Consequent Pole PM Machines. IEEE Transactions on Industry Applications, 2022, 58, 3511-3521.	4.9	17
419	Unbalanced magnetic forces in permanent magnet brushless machines with diametrically asymmetric phase windings. , 0, , .		16
420	Comparison of all and alternate poles wound flux-switching PM machines having different stator and rotor pole numbers. , 2009, , .		16
421	Analysis of rotor eddy current loss in fractional slot permanent magnet machine with solid rotor back-iron. , 2010, , .		16
422	Comparison of electrically excited and interior permanent magnet machines for hybrid electric vehicle application. , 2014, , .		16
423	Electromagnetic Performance of Stator Slot Permanent Magnet Machines With/Without Stator Tooth-Tips and Having Single/Double Layer Windings. IEEE Transactions on Magnetics, 2016, 52, 1-10.	2.1	16
424	Influence of stator slot and pole number combination on rotor bar current waveform and performance of induction machines. , 2017, , .		16
425	Comparison of Electromagnetic Performance of 10-MW Superconducting Generators With Different Topologies for Offshore Direct-Drive Wind Turbines. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-11.	1.7	16
426	Electromagnetic performance comparison of 18-slot/26-pole and 18-slot/10-pole fractional slot permanent magnet surface-mounted machines. , 2017, , .		16
427	Analysis of parasitic effects in carrier signal injection methods for sensorless control of PM synchronous machines. IET Electric Power Applications, 2018, 12, 203-212.	1.8	16
428	Novel Dual-Stator Machines With Biased Permanent Magnet Excitation. IEEE Transactions on Energy Conversion, 2018, 33, 2070-2080.	5.2	16
429	A Novel Hybrid-Pole Interior PM Machine with Magnet-Axis-Shifting Effect. , 2019, , .		16
430	Novel Modular Fractional Slot Permanent Magnet Machines With Redundant Teeth. IEEE Transactions on Magnetics, 2019, 55, 1-10.	2.1	16
431	Optimal split ratio in small high speed PM machines considering both stator and rotor loss limitations. CES Transactions on Electrical Machines and Systems, 2019, 3, 3-11.	3.5	16
432	Performance comparison between consequentâ€pole and inset modular permanent magnet machines. Journal of Engineering, 2019, 2019, 3951-3955.	1.1	16

#	ARTICLE	IF	CITATIONS
433	Torque Density Enhancement of 6/4 Variable Flux Reluctance Machine With Second-Harmonic Current Injection. IEEE Transactions on Energy Conversion, 2019, 34, 1135-1145.	5.2	16
434	Theoretical Harmonic Spectra of PWM Waveforms Including DC Bus Voltage Ripple—Application to a Low-Capacitance Modular Multilevel Converter. IEEE Transactions on Power Electronics, 2020, 35, 9291-9305.	7.9	16
435	Adaptive Voltage Feedback Controllers on Nonsalient Permanent Magnet Synchronous Machine. IEEE Transactions on Industry Applications, 2020, 56, 1529-1542.	4.9	16
436	Performance Investigation of Consequent-Pole PM Machines With E-core and C-core Modular Stators. IEEE Transactions on Energy Conversion, 2021, 36, 1169-1179.	5.2	16
437	Modeling of end-effect in flux-switching permanent magnet machines. , 2007, , .		16
438	Torque-Speed Characteristics of Interior-Magnet Machines in Brushless AC and DC Modes, with Particular Reference to Their Flux-Weakening Performance. , 2006, , .		15
439	Influence of end-effect and cross-coupling on torque-speed characteristics of switched flux permanent magnet machines. , 2011, , .		15
440	Carrier Signal Injection-Based Sensorless Control of Permanent Magnet Synchronous Machines Without the Need of Magnetic Polarity Identification. IEEE Transactions on Industry Applications, 2016, 52, 3916-3926.	4.9	15
441	Investigation on Phase Shift Between Multiple Multiphase Windings in Flux-Switching Permanent Magnet Machines. IEEE Transactions on Industry Applications, 2017, 53, 1958-1970.	4.9	15
442	Split ratio optimisation of high-speed permanent magnet brushless machines considering mechanical constraints. IET Electric Power Applications, 2019, 13, 81-90.	1.8	15
443	Adaptive Threshold Correction Strategy for Sensorless High-Speed Brushless DC Drives Considering Zero-Crossing-Point Deviation. IEEE Transactions on Industrial Electronics, 2020, 67, 5246-5257.	7.9	15
444	Novel Current Profile of Switched Reluctance Machines for Torque Density Enhancement in Low-Speed Applications. IEEE Transactions on Industrial Electronics, 2020, 67, 9623-9634.	7.9	15
445	Influence of Rotor Eccentricity On Electromagnetic Performance of 2-pole/3-slot PM Motors. IEEE Transactions on Energy Conversion, 2022, 37, 696-706.	5.2	15
446	Improved Cross-coupling Effect Compensation Method for Sensorless Control of IPMSM With High Frequency Voltage Injection. IEEE Transactions on Energy Conversion, 2022, 37, 347-358.	5.2	15
447	Improved Low-Order Thermal Model for Critical Temperature Estimation of PMSM. IEEE Transactions on Energy Conversion, 2022, 37, 413-423.	5.2	15
448	Sensorless flux-weakening control of permanent magnet brushless machines using third-harmonic back-EMF. , 0, , .		14
449	A New Simplex Wave Winding Permanent-Magnet Brushless DC Machine. IEEE Transactions on Magnetics, 2011, 47, 252-259.	2.1	14
450	Performance analysis of switched-flux machines with hybrid NdFeB and ferrite magnets. , 2014, , .		14

#	ARTICLE	IF	CITATIONS
451	Influence of machine design parameters on flux-weakening performance of induction machine for electrical vehicle application. IET Electrical Systems in Transportation, 2015, 5, 43-52.	2.4	14
452	Reduction of On-Load Terminal Voltage Distortion in Fractional Slot Interior Permanent Magnet Machines. IEEE Transactions on Energy Conversion, 2016, 31, 1161-1169.	5.2	14
453	A Novel Variable Reactor and Its Application to Shunt Power Quality Controller. IEEE Transactions on Power Electronics, 2016, 31, 4148-4158.	7.9	14
454	Comparison of Flux-Weakening Control Strategies of Novel Hybrid-Excited Doubly Salient Synchronous Machines. IEEE Transactions on Industry Applications, 2019, 55, 3589-3597.	4.9	14
455	A Novel Variable Flux Dual-Layer Hybrid Magnet Memory Machine with Bypass Airspace Barriers. , 2019, , .		14
456	Comparative Study of Modular Dual 3-Phase Permanent Magnet Machines With Overlapping/Non-overlapping Windings. IEEE Transactions on Industry Applications, 2019, 55, 3566-3576.	4.9	14
457	Magnet Eddy Current Loss Reduction in Permanent Magnet Machines. IEEE Transactions on Industry Applications, 2019, 55, 1309-1320.	4.9	14
458	Safety Operation Area of Zero-Crossing Detection-Based Sensorless High-Speed BLDC Motor Drives. IEEE Transactions on Industry Applications, 2020, 56, 6456-6466.	4.9	14
459	Comparative Study of Series and Parallel Hybrid Excited Machines. IEEE Transactions on Energy Conversion, 2020, 35, 1705-1714.	5.2	14
460	A Novel Sensorless Initial Position Estimation and Startup Method. IEEE Transactions on Industrial Electronics, 2021, 68, 2964-2975.	7.9	14
461	Multiple Synchronous Reference Frame Current Harmonic Regulation of Dual Three Phase PMSM With Enhanced Dynamic Performance and System Stability. IEEE Transactions on Industrial Electronics, 2022, 69, 8825-8838.	7.9	14
462	A Novel Asymmetric Interior Permanent Magnet Synchronous Machine. IEEE Transactions on Industry Applications, 2022, 58, 3370-3382.	4.9	14
463	Modular 3-Phase Permanent Magnet Brushless Machines for In-Wheel Applications. , 2006, , .		13
464	Influence of rotor pole number on optimal parameters in flux-switching PM brushless AC machines by lumped parameter magnetic circuit model. , 2009, , .		13
465	Analytical cogging torque prediction for surface-mounted PM machines accounting for different slot sizes and uneven positions. , 2011, , .		13
466	Analytical modeling of eddy current loss in retaining sleeve of surface-mounted PM machines accounting for influence of slot opening. , 2012, , .		13
467	Comparison of electromagnetic performance of switched flux permanent magnet machines with mechanical flux adjusters. IET Electrical Systems in Transportation, 2015, 5, 175-184.	2.4	13
468	Investigation of irreversible demagnetisation in switched flux permanent magnet machines under short-circuit conditions. IET Electric Power Applications, 2017, 11, 595-602.	1.8	13

#	ARTICLE	IF	CITATIONS
469	Cogging Torque and Unbalanced Magnetic Force Prediction in PM Machines With Axial-Varying Eccentricity by Superposition Method. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	13
470	Rotor Shaping Method for Torque Ripple Mitigation in Variable Flux Reluctance Machines. IEEE Transactions on Energy Conversion, 2018, 33, 1579-1589.	5.2	13
471	A Novel Axial Flux Magnetically Geared Machine for Power Split Application. IEEE Transactions on Industry Applications, 2018, 54, 5954-5966.	4.9	13
472	Analysis of Stator/Rotor Pole Combinations in Variable Flux Reluctance Machines Using Magnetic Gearing Effect. IEEE Transactions on Industry Applications, 2019, 55, 1495-1504.	4.9	13
473	Analysis of Split-Tooth Stator Slot PM Machine. IEEE Transactions on Industrial Electronics, 2021, 68, 10580-10591.	7.9	13
474	Study on noise and disturbance issues of generalized predictive speed control for permanent magnet synchronous machines. IET Electric Power Applications, 2021, 15, 63-78.	1.8	13
475	Analytical Prediction of Dynamic Performance Characteristics of Brushless DC Drives. Electric Power Components and Systems, 1992, 20, 661-678.	0.1	12
476	Simple and accurate analytical estimation of slotting effect on magnet loss in fractional-slot surface-mounted PM machines. , 2012, , .		12
477	Analytical investigation of open-circuit eddy current loss in windings of PM machines. , 2012, , .		12
478	Comparison of flux weakening capability in alternative switched flux permanent magnet machines by mechanical adjusters. , 2012, , .		12
479	Comparison of low-cost single-phase wound-field switched-flux machines. , 2013, , .		12
480	Novel switched-flux hybrid permanent magnet memory machines for EV/HEV applications. , 2014, , .		12
481	Thermal modelling of switched flux permanent magnet machines. , 2014, , .		12
482	Comparative study of novel synchronous machines having permanent magnets in stator poles. , 2014, , .		12
483	A novel variable flux memory machine with series hybrid magnets. , 2016, , .		12
484	Investigation of non-sinusoidal rotor bar current phenomenon in induction machines " Influence of slip and electric loading. , 2016, , .		12
485	A Novel Dual-Layer PM Variable Flux Hybrid Memory Machine. , 2018, , .		12
486	Comparative Study of Partitioned Stator Memory Machines With Series and Parallel Hybrid PM Configurations. IEEE Transactions on Magnetics, 2019, 55, 1-8.	2.1	12

#	ARTICLE	IF	CITATIONS
487	Permanent magnet brushless machines with unequal tooth widths and similar slot and pole numbers. , 0, , .		11
488	Indirect and Direct Force Control of a Two-Phase Tubular Permanent Magnet Machine. IEEE Transactions on Power Electronics, 2007, 22, 654-662.	7.9	11
489	Improved rotating carrier signal injection method for sensorless control of PM brushless AC motors, accounting for cross-saturation effect. , 2011, , .		11
490	Investigation of electromagnetic performance of salient-pole synchronous reluctance machines having different concentrated winding connections. , 2013, , .		11
491	Influence of pole and slot number combinations on cogging torque in permanent magnet machines with static and rotating eccentricities. , 2013, , .		11
492	Parameter estimation of PMSM for aiding PI regulator design of field oriented control. , 2014, , .		11
493	Comparison of carrier signal injection methods for sensorless control of PMSM drives. , 2015, , .		11
494	Rotor position estimation for dual-three-phase permanent magnet synchronous machine based on third harmonic back-EMF. , 2015, , .		11
495	Influence of Pole Number and Stator Outer Diameter on Volume, Weight, and Cost of Superconducting Generators With Iron-Cored Rotor Topology for Wind Turbines. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-9.	1.7	11
496	Influence of PM- and Armature Winding-Stator Positions on Electromagnetic Performance of Novel Partitioned Stator Permanent Magnet Machines. IEEE Transactions on Magnetics, 2017, 53, 1-12.	2.1	11
497	Comparison of End Effect in Series and Parallel Hybrid Permanent-Magnet Variable-Flux Memory Machines. IEEE Transactions on Industry Applications, 2019, 55, 2529-2537.	4.9	11
498	48%V Starter-Generator Induction Machine With Pole-Changing Windings. IEEE Transactions on Industry Applications, 2020, 56, 6324-6337.	4.9	11
499	Influence of Stator Slot and Rotor Pole Number Combination on Field Winding Induced Voltage Ripple in Hybrid Excitation Switched Flux Machine. IEEE Transactions on Energy Conversion, 2021, 36, 1245-1261.	5.2	11
500	A Novel Asymmetric-Magnetic-Pole Interior PM Machine With Magnet-Axis-Shifting Effect. IEEE Transactions on Industry Applications, 2021, 57, 5927-5938.	4.9	11
501	Modelling and vector control of dual three-phase PMSM with one-phase open. IET Electric Power Applications, 2021, 15, 847-860.	1.8	11
502	Compensation of Selective Current Harmonics for Switching-Table-Based Direct Torque Control of Dual Three-Phase PMSM Drives. IEEE Transactions on Industry Applications, 2021, 57, 2505-2515.	4.9	11
503	A Generalized Decomposition Model of Dual Three-Phase Permanent Magnet Synchronous Machines Considering Asymmetric Impedances and Compensation Capability. IEEE Transactions on Industry Applications, 2021, 57, 3763-3775.	4.9	11
504	Modulation Restraint Analysis of Space Vector PWM for Dual Three-Phase Machines Under Vector Space Decomposition. IEEE Transactions on Power Electronics, 2021, 36, 14491-14507.	7.9	11

#	ARTICLE	IF	CITATIONS
505	Comparative Study of 6-Slot/2-Pole High-Speed Permanent Magnet Motors With Different Winding Configurations. IEEE Transactions on Industry Applications, 2021, 57, 5864-5875.	4.9	11
506	Influence of Slot Number on Electromagnetic Performance of 2-pole High-Speed Permanent Magnet Motors With Toroidal Windings. IEEE Transactions on Industry Applications, 2021, 57, 6023-6033.	4.9	11
507	A Novel Delta-Type Hybrid-Magnetic-Circuit Variable Flux Memory Machine for Electrified Vehicle Applications. IEEE Transactions on Transportation Electrification, 2022, 8, 3512-3523.	7.8	11
508	Design considerations for permanent magnet polarised electromagnetically actuated brakes. IEEE Transactions on Magnetics, 1995, 31, 3743-3745.	2.1	10
509	Influence of design parameters on cogging torque in permanent magnet machines. , 0, , .		10
510	EKF-based Hybrid Controller for Permanent Magnet Brushless Motors Combining Hall Sensors and a Flux-Observer-based Sensorless Technique. , 2005, , .		10
511	Synthesis of cogging torque waveform from analysis of a single stator slot. , 2005, , .		10
512	Practical Issues in Sensorless Control of PM Brushless Machines Using Third-Harmonic Back-EMF. , 2006, , .		10
513	Rotor Eddy Current Loss in Single-Phase Permanent Magnet Brushless DC Motor. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2007, , .	0.0	10
514	Influence of PWM on the Proximity Loss in Permanent Magnet Brushless AC Machines. , 2008, , .		10
515	A Novel Torsional Excitation Scheme for Determining Mechanical Transfer Function and Natural Frequencies of Circumferential Vibration in PM Brushless Machine Drives. IEEE Transactions on Magnetics, 2011, 47, 4195-4198.	2.1	10
516	Design and experimental verification of an 18-slot/10-pole fractional-slot surface-mounted permanent-magnet machine. , 2013, , .		10
517	A new sensorless control strategy by high-frequency pulsating signal injection into stationary reference frame. , 2013, , .		10
518	Calculation of torque-speed characteristic of induction machine for electrical vehicle application using analytical method. , 2014, , .		10
519	Novel Flux-Regulatable Dual-Magnet Vernier Memory Machines for Electric Vehicle Propulsion. IEEE Transactions on Applied Superconductivity, 2014, 24, 1-5.	1.7	10
520	Mechanical parameter estimation of permanent magnet synchronous machines with aiding from estimation of rotor PM flux linkage. , 2014, , .		10
521	Influence of on-load voltage distortion on torque-speed characteristic of interior permanent magnet machines. , 2015, , .		10
522	Comparative Study of Vernier and Interior PM Machines for Automotive Application. , 2016, , .		10

#	ARTICLE	IF	CITATIONS
523	Experimental validation of an enhanced permeance network model for embedded magnet synchronous machines. <i>Electric Power Systems Research</i> , 2016, 140, 836-845.	3.6	10
524	An Improved Method of DC Bus Voltage Pulsation Suppression for Asymmetric Wind Power PMSC Systems With a Compensation Unit in Parallel. <i>IEEE Transactions on Energy Conversion</i> , 2017, 32, 1231-1239.	5.2	10
525	Improved position offset based parameter determination of permanent magnet synchronous machines under different load conditions. <i>IET Electric Power Applications</i> , 2017, 11, 603-612.	1.8	10
526	Influence of magnet arrangement on performance of flux reversal permanent magnet machine. , 2017, , .		10
527	Magnetic gearing effect in vernier permanent magnet synchronous machines. , 2017, , .		10
528	Influence of PM Coating on PM Magnetization State Estimation Methods Based on Magnetoresistive Effect. <i>IEEE Transactions on Industry Applications</i> , 2018, 54, 2141-2150.	4.9	10
529	Influence of Magnetic Saturation and Rotor Eccentricity on Back EMF of Novel Hybrid-Excited Stator Slot Opening Permanent Magnet Machine. <i>IEEE Transactions on Magnetics</i> , 2018, 54, 1-5.	2.1	10
530	Investigation of Optimal Split Ratio for High-Speed Permanent-Magnet Brushless Machines. <i>IEEE Transactions on Magnetics</i> , 2018, 54, 1-5.	2.1	10
531	Comparison of optimal slot/pole number combinations in fractional slot permanent magnet synchronous machines having similar slot and pole numbers. <i>Journal of Engineering</i> , 2019, 2019, 4585-4589.	1.1	10
532	Comparative Analysis of Variable Flux Reluctance Machines With Double- and Single-Layer Concentrated Armature Windings. <i>IEEE Transactions on Industry Applications</i> , 2019, 55, 1505-1515.	4.9	10
533	Spectral Analysis and Sideband Harmonic Cancellation of Six-Step Operation With Low Carrier-Fundamental Frequency Ratio for High-Speed Brushless DC Drives. <i>IEEE Transactions on Industrial Electronics</i> , 2021, 68, 7778-7792.	7.9	10
534	PWM Switching Delay Correction Method for High-Speed Brushless DC Drives. <i>IEEE Access</i> , 2021, 9, 81717-81727.	4.2	10
535	Investigation of Novel Doubly Salient Hybrid Excited Machine With Non-Overlapped Field Winding. <i>IEEE Transactions on Energy Conversion</i> , 2021, 36, 2261-2275.	5.2	10
536	A Novel Asymmetric Rotor Interior Permanent Magnet Machine With Hybrid-Layer Permanent Magnets. <i>IEEE Transactions on Industry Applications</i> , 2021, 57, 5993-6006.	4.9	10
537	A Novel Spoke-type Asymmetric Rotor Interior PM Machine. , 2020, , .		10
538	Analytical prediction of stator flux density waveforms and iron losses in brushless DC machines, accounting for load condition. , 0, , .		9
539	High torque density permanent magnet brushless machines with similar slot and pole numbers. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, E1767-E1769.	2.3	9
540	Investigation of Magnetic Drag Torque in Permanent Magnet Brushless Motors. <i>IEEE Transactions on Magnetics</i> , 2007, 43, 2507-2509.	2.1	9

#	ARTICLE	IF	CITATIONS
541	Thermal analysis and comparison of permanent magnet motor and generator. , 2011, , .		9
542	Improved sensorless operation of permanent magnet brushless AC motors based on online optimal efficiency control. , 2011, , .		9
543	Comparison of alternate mechanically adjusted variable flux switched flux permanent magnet machines. , 2012, , .		9
544	Comparison of low-cost wound-field switched-flux machines. , 2013, , .		9
545	A new control strategy for hybrid-excited switched-flux permanent magnet machines without the requirement of machine parameters. , 2014, , .		9
546	Analytical determination of 3rd order harmonic current into five phase PM machine for maximum torque. , 2015, , .		9
547	A Winding-Switching Concept for Flux Weakening in Consequent Magnet Pole Switched Flux Memory Machine. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	9
548	Determination of Electrical Parameters of PMSM Drive System at Standstill. , 2016, , .		9
549	Influence of Conduction Angles on Single-Layer Switched Reluctance Machines. IEEE Transactions on Magnetics, 2016, 52, 1-11.	2.1	9
550	Comparative study of synchronous machines having permanent magnets in stator. Electric Power Systems Research, 2016, 133, 304-312.	3.6	9
551	Analysis of On-Load Magnetization Characteristics in a Novel Partitioned Stator Hybrid Magnet Memory Machine. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	9
552	A variable-mode stator consequent pole memory machine. AIP Advances, 2018, 8, 056612.	1.3	9
553	Influences of PM Number and Shape of Spoke Array PM Flux Reversal Machines. IEEE Transactions on Energy Conversion, 2021, 36, 1131-1142.	5.2	9
554	Generic Slot and Pole Number Combinations for Novel Modular Permanent Magnet Dual 3-Phase Machines With Redundant Teeth. IEEE Transactions on Energy Conversion, 2020, 35, 1676-1687.	5.2	9
555	Reduction of Open-Circuit DC Winding Induced Voltage and Torque Pulsation in the Wound Field Switched Flux Machine by Stator Axial Pairing of Tooth Tips. IEEE Transactions on Industry Applications, 2022, 58, 1976-1990.	4.9	9
556	Comparison of Different Winding Configurations for Dual Three-Phase Interior PM Machines in Electric Vehicles. World Electric Vehicle Journal, 2022, 13, 51.	3.0	9
557	A Novel Space Vector PWM Technique With Duty Cycle Optimization Through Zero Vectors for Dual Three-Phase PMSM. IEEE Transactions on Energy Conversion, 2022, 37, 2271-2284.	5.2	9
558	Design Tradeoffs between Stator Core Loss and Torque Ripple in IPM Machines. , 2008, , .		8



#	ARTICLE	IF	CITATIONS
559	Comparison of analytical models for predicting electromagnetic performance in surface-mounted permanent magnet machines. , 2010, , .		8
560	Comparison between induction machine and interior permanent magnet machine for electric vehicle application. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2016, 35, 572-585.	0.9	8
561	Analytical sub-domain model for predicting open-circuit field of permanent magnet vernier machine accounting for tooth tips. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2016, 35, 624-640.	0.9	8
562	Performance Improvement of Partitioned Stator Switched Flux Memory Machines With Triple-Magnet Configuration. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	8
563	Rotor position estimation for single- and dual-three-phase permanent magnet synchronous machines based on third harmonic back-EMF under imbalanced situation. Chinese Journal of Electrical Engineering, 2017, 3, 63-72.	3.4	8
564	Comparative study of double-sided toroidal-winding linear PM vernier machines with different secondary configurations. , 2017, , .		8
565	Influence of Rotor Skew on Rotor Bar Current Waveform and Performance in Induction Machines. , 2018, , .		8
566	Investigation on Contribution of Inductance Harmonics to Torque Production in Multiphase Doubly Salient Synchronous Reluctance Machines. IEEE Transactions on Magnetics, 2019, 55, 1-10.	2.1	8
567	Influence of Stator and Rotor Pole Number Combinations on the Electromagnetic Performance of Stator Slot-Opening PM Hybrid-Excited Machine. IEEE Transactions on Magnetics, 2019, 55, 1-10.	2.1	8
568	Influence of Critical Parameters in Lumped-Parameter Thermal Models for Electrical Machines. , 2019, , .		8
569	Generalized Predictive dc-Link Voltage Control for Grid-Connected Converter. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 1489-1506.	5.4	8
570	Reduction of On-Load DC Winding-Induced Voltage in Partitioned Stator Wound Field Switched Flux Machines by Dual Three-Phase Armature Winding. IEEE Transactions on Industrial Electronics, 2022, 69, 5409-5420.	7.9	8
571	Influence of Stator Gap on Electromagnetic Performance of 6-Slot/2-Pole Modular High Speed Permanent Magnet Motor With Toroidal Windings. IEEE Access, 2021, 9, 94470-94494.	4.2	8
572	A Novel Method for Estimating the High Frequency Incremental DQ-Axis and Cross-Coupling Inductances in Interior Permanent Magnet Synchronous Machines. IEEE Transactions on Industry Applications, 2021, 57, 4913-4923.	4.9	8
573	Investigation of scaling effect on power factor of permanent magnet Vernier machines for wind power application. IET Electric Power Applications, 2020, 14, 2136-2145.	1.8	8
574	A Novel V-shape Interior Permanent Magnet Synchronous Machine with Asymmetric Spoke-type Flux Barrier. , 2020, , .		8
575	High Frequency Signal Injection Sensorless Control of Finite-Control-Set Model Predictive Control With Deadbeat Solution. IEEE Transactions on Industry Applications, 2022, 58, 3685-3695.	4.9	8
576	Suppression of Torque Ripple for Consequent Pole PM Machine by Asymmetric Pole Shaping Method. IEEE Transactions on Industry Applications, 2022, 58, 3545-3557.	4.9	8

#	ARTICLE	IF	CITATIONS
577	EFFECT OF ROTOR ECCENTRICITY AND MAGNETIC CIRCUIT SATURATION ON ACOUSTIC NOISE AND VIBRATION OF SINGLE-PHASE INDUCTION MOTORS. <i>Electric Power Components and Systems</i> , 1997, 25, 443-457.	0.1	7
578	Modeling and Analysis of a Tubular Oscillating Permanent Magnet Actuator. , 2008, , .		7
579	Optimal split ratio in fractional-slot interior permanent magnet machines with non-overlapping windings. , 2009, , .		7
580	Torque speed characteristics of switched flux permanent magnet machines. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2011, 31, 22-39.	0.9	7
581	Speed Range Extension for Simplex Wave Winding Permanent-Magnet Brushless DC Machine. <i>IEEE Transactions on Magnetics</i> , 2013, 49, 890-897.	2.1	7
582	Improved permeance network model for embedded magnet synchronous machines. , 2014, , .		7
583	Analysis of carrier signal injection based sensorless control of PMSM drives under limited inverter switching frequency condition. , 2014, , .		7
584	Rotor position error compensation based on third harmonic back-EMF in flux observer sensorless control. , 2014, , .		7
585	A novel partitioned stator flux reversal permanent magnet linear machine. , 2015, , .		7
586	Compensation of unbalanced impedance of asymmetric wind power PMSG compensated by external circuits in series. <i>CES Transactions on Electrical Machines and Systems</i> , 2017, 1, 180-188.	3.5	7
587	Comparative study of magnetic gearing effect in integral slot, fractional slot winding and vernier PM machines. , 2017, , .		7
588	Analysis of stator/rotor pole combinations in variable flux reluctance machines using magnetic gearing effect. , 2017, , .		7
589	A novel flux-reversal hybrid magnet memory machine. , 2017, , .		7
590	Adaptive Voltage Feedback Controllers on the Non-Salient Permanent Magnet Synchronous Machine. , 2018, , .		7
591	Thermal-Loss Coupling Analysis of an Electrical Machine Using the Improved Temperature-Dependent Iron Loss Model. <i>IEEE Transactions on Magnetics</i> , 2018, 54, 1-5.	2.1	7
592	A Novel Dual-Sided PM Variable Flux Memory Machine. <i>IEEE Transactions on Magnetics</i> , 2018, 54, 1-5.	2.1	7
593	Investigation of stator slot/rotor pole combination of flux reversal permanent magnet machine with consequentâ€pole PM structure. <i>Journal of Engineering</i> , 2019, 2019, 4267-4272.	1.1	7
594	Influence of Design Parameters on On-Load Demagnetization Characteristics of Switched Flux Hybrid Magnet Memory Machine. <i>IEEE Transactions on Magnetics</i> , 2019, 55, 1-5.	2.1	7

#	ARTICLE	IF	CITATIONS
595	Coordinated Elimination Strategy of Low Order Output Current Distortion for LC-Filtered DFIG System Based on Hybrid Virtual Impedance Method. IEEE Transactions on Power Electronics, 2019, 34, 7502-7520.	7.9	7
596	Research on a hybrid excitation PM synchronous generator with stator third harmonic winding excitation. IET Electric Power Applications, 2020, 14, 418-425.	1.8	7
597	Analytical Modelling and Optimization of Output Voltage Harmonic Spectra of Full-Bridge Modular Multilevel Converters in Boost Mode. IEEE Transactions on Power Electronics, 2022, 37, 3403-3420.	7.9	7
598	A Rotor Initial Position Estimation Method for Surface-Mounted Permanent Magnet Synchronous Machine. IEEE Transactions on Energy Conversion, 2021, 36, 2012-2024.	5.2	7
599	Analysis of coil pitch in induction machines for electric vehicle applications. IET Electric Power Applications, 2020, 14, 2525-2536.	1.8	7
600	Comparison of Torque-speed Characteristics of Interior-magnet Machines in Brushless AC and DC Modes for EV/HEV Applications. Journal of Asian Electric Vehicles, 2006, 4, 843-850.	0.4	7
601	Direct torque control of PM brushless AC motors having non-sinusoidal back-emf waveforms. , 2006, , .		7
602	Electromagnetic Performance Analysis of 6-Slot/2-Pole High-Speed Permanent Magnet Motors With Coil-pitch of Two Slot-pitches. IEEE Transactions on Energy Conversion, 2022, 37, 1335-1345.	5.2	7
603	Improved Sensorless Control Method and Asymmetric Phase Resistances Determination for Permanent Magnet Synchronous Machines. IEEE Transactions on Industry Applications, 2022, 58, 3624-3636.	4.9	7
604	Effect of End-Winding on Electromagnetic Performance of Fractional Slot and Vernier PM Machines With Different Slot/Pole Number Combinations and Winding Configurations. IEEE Access, 2022, 10, 49934-49955.	4.2	7
605	On-line optimal field-weakening control of permanent magnet brushless AC drives. , 0, , .		6
606	Improved Rotor Position Estimation by Signal Injection in Brushless AC Motors, Accounting for Cross-Coupling Magnetic Saturation. Conference Record - IAS Annual Meeting (IEEE Industry) Tj ETQq0 0 0 rgBT /Oedlock 106Tf 50 297		6
607	A novel hybrid excited flux-switching brushless AC Machines for EV/HEV applications. , 2010, , .		6
608	Multi-parameter estimation of non-salient pole permanent magnet synchronous machines by using evolutionary algorithms. , 2010, , .		6
609	Analytical determination of optimal split ratio for overlapping and non-overlapping winding external rotor PM brushless machines. , 2011, , .		6
610	Control of stator torsional vibration in PM brushless AC drives due to non-sinusoidal back-EMF and cogging torque by improved direct torque control. , 2011, , .		6
611	Comparative study of electromagnetic performance of switched reluctance machines under different excitation techniques. , 2013, , .		6
612	Reduction of Unbalanced Magnetic Force in 2-pole 3-slot Permanent Magnet Machine. , 2014, , .		6

#	ARTICLE	IF	CITATIONS
613	PMSM magnetization state estimation based on stator-reflected PM resistance using high frequency signal injection. , 2014, , .		6
614	Iron Loss Calculation in Permanent Magnet Machines Under Unconventional Operations. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	6
615	Influence of manufacturing tolerances on cogging torque in interior permanent magnet machines with eccentric and sinusoidal rotor contours. , 2016, , .		6
616	Torque capability enhancement of dual three-phase PMSM drive with fifth and seventh current harmonics injection. , 2016, , .		6
617	Comparison of two-individual current control and vector space decomposition control for dual three-phase PMSM. , 2016, , .		6
618	Flux-Concentrated External-Rotor Switched Flux Memory Machines for Direct-Drive Applications. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-6.	1.7	6
619	A novel axial flux magnetically geared machine for power split application. , 2017, , .		6
620	Effect of magnet thickness on electromagnetic performance of high speed permanent magnet machines. , 2017, , .		6
621	Evaluation of iron loss models in electrical machines. , 2017, , .		6
622	Magnet eddy current loss reduction in a 3-slot 2-pole permanent magnet machine. , 2017, , .		6
623	Using inverter-based renewable generators to improve the grid power quality”A review. Chinese Journal of Electrical Engineering, 2018, 4, 16-25.	3.4	6
624	Quantitative Analysis of Contribution of Air-Gap Field Harmonics to Torque Production in Three-Phase 12-Slot/8-Pole Doubly Salient Synchronous Reluctance Machines. IEEE Transactions on Magnetics, 2018, 54, 1-11.	2.1	6
625	48V Starter-Generator Induction Machine with Pole Changing Windings. , 2019, , .		6
626	Two-Level Surrogate-Assisted Transient Parameters Design Optimization of a Wound-Field Synchronous Machine. IEEE Transactions on Energy Conversion, 2022, 37, 737-747.	5.2	6
627	Stator Optimization of Wind Power Generators With High-Temperature Superconducting Armature Windings and Permanent Magnet Rotor. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-10.	1.7	6
628	Suppression of Torque Ripple for Consequent Pole PM Machine by Asymmetric Pole Shaping Method. , 2021, , .		6
629	Voltage Pulsation Induced in DC Field Winding of Different Hybrid Excitation Switched Flux Machines. IEEE Transactions on Industry Applications, 2021, 57, 4815-4830.	4.9	6
630	Enhancement of Disturbance Rejection Capability in Dual Three-Phase PMSM System by Using Virtual Impedance. IEEE Transactions on Industry Applications, 2021, 57, 4901-4912.	4.9	6

#	ARTICLE	IF	CITATIONS
631	Design and Analysis of Advanced Nonoverlapping Winding Induction Machines for EV/HEV Applications. <i>Energies</i> , 2021, 14, 6849.	3.1	6
632	A Novel Asymmetric Interior Permanent Magnet Synchronous Machine. , 2020, , .		6
633	A Novel Asymmetric Rotor Interior PM Machine with Hybrid-layer PMs. , 2020, , .		6
634	A Novel Rotor Initial Position Detection Method Utilizing DC-Link Voltage Sensor. <i>IEEE Transactions on Industry Applications</i> , 2020, 56, 6486-6495.	4.9	6
635	Comparative study of alternative fuzzy logic control strategies of permanent magnet brushless AC drive. , 0, , .		5
636	Reduction of cogging torque in interior-magnet brushless machines. , 0, , .		5
637	Commutation Torque Ripple Minimization in Direct Torque Controlled PM Brushless DC Drives. <i>Conference Record - IAS Annual Meeting (IEEE Industry Applications Society)</i> , 2006, , .	0.0	5
638	A high torque density permanent magnet motor for oil pumping unit. <i>Journal of Applied Physics</i> , 2008, 103, 07F108.	2.5	5
639	Optimization of multi-tooth flux-switching PM brushless ac machines. , 2008, , .		5
640	Sliding mode current control of grid-connected voltage source converter. , 2010, , .		5
641	Analysis and mitigation of torsional vibration of PM brushless DC drives with direct torque controller. , 2011, , .		5
642	Improved sensorless control of permanent magnet synchronous machine based on third-harmonic back-EMF. , 2013, , .		5
643	Electromagnetic performance of interior permanent magnet machines with eccentricity. , 2013, , .		5
644	Unbalanced magnetic force in permanent magnet machines having asymmetric windings and static/rotating eccentricities. , 2013, , .		5
645	Comparison of torque densities in alternate wound-field switched flux machines. , 2014, , .		5
646	Analysis and suppression of zero sequence circulating current in open winding PMSM drives with common DC bus. , 2016, , .		5
647	Comparative Study of High Performance Double-Stator Switched Flux Permanent Magnet Machines. , 2016, , .		5
648	Influence of local magnetic saturation on iron losses in interior permanent magnet machines. , 2016, , .		5

#	ARTICLE	IF	CITATIONS
649	Electromagnetic performance of switched flux PM machines with two separate stators. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2016, 35, 376-395.	0.9	5
650	Influence of back-EMF and current harmonics on sensorless control performance of single and dual three-phase permanent magnet synchronous machines. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2016, 35, 744-763.	0.9	5
651	Influence of gear ratio on electromagnetic performance and geometries of vernier permanent magnet synchronous machines. , 2017, , .		5
652	Novel Dual-Stator Switched-Flux Memory Machines With Hybrid Magnets. IEEE Transactions on Industry Applications, 2018, 54, 2129-2140.	4.9	5
653	Hybrid Excited Stator Slot PM Machines with Overlapping Windings. , 2018, , .		5
654	Fast design method of variable flux reluctance machines. CES Transactions on Electrical Machines and Systems, 2018, 2, 152-159.	3.5	5
655	Comparative Studies of Fractional/Integer-Slot Consequent Pole Permanent Magnet Machines. , 2019, , .		5
656	Utilisation of grain-oriented electrical steel in permanent magnet fractional-slot modular machines. Journal of Engineering, 2019, 2019, 3682-3686.	1.1	5
657	Stator/Rotor Pole Combinations of Variable Flux Reluctance Machines with 2nd Harmonic Current Injection Method. , 2019, , .		5
658	Influence of Demagnetization on Selecting the Optimum Slot/Pole Number Combination for 3MW Surface Mounted Permanent Magnet Vernier Machine. , 2019, , .		5
659	Analysis of Novel Consequent Pole Flux Reversal Permanent Magnet Machine. , 2019, , .		5
660	Study of Operation Principle of a Novel Brushless Self-Excited Air-Core Compensated Pulsed Alternator. IEEE Transactions on Plasma Science, 2019, 47, 2362-2368.	1.3	5
661	Influence of Coil Location and Current Angle in Permanent Magnet Wind Power Generators With High-Temperature Superconducting Armature Windings. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-10.	1.7	5
662	Novel Dual-PM Spoke-Type Flux-Reversal Machines. , 2021, , .		5
663	Flux-weakening Characteristics of Non-sinusoidal Back-EMF PM Machines in Brushless DC and AC Modes. Journal of Asian Electric Vehicles, 2006, 4, 919-925.	0.4	5
664	Low Switching Frequency SPWM Strategies for Open-Winding Machine With Low Current Harmonics. IEEE Transactions on Industry Applications, 2022, 58, 2042-2054.	4.9	5
665	Investigation of Asymmetric Consequent-Pole Hybrid Excited Flux Reversal Machines. IEEE Transactions on Industry Applications, 2022, 58, 3434-3446.	4.9	5
666	Instantaneous torque estimation in sensorless direct torque controlled brushless DC motors. , 0, , .		4

#	ARTICLE	IF	CITATIONS
667	Analytical optimization and comparison of torque densities between permanent magnet and electrically excited machines. , 2012, , .		4
668	Sensorless control based on third harmonic back-EMF and PLL for permanent magnet synchronous machine. , 2013, , .		4
669	Space-vector PWM based direct torque control of PM brushless machine drives having non-ideal characteristics. , 2013, , .		4
670	Analytical modeling of multi-segment and multilayer interior permanent magnet machines. , 2014, , .		4
671	A linear switched-flux PM machine with 9/10 primary/secondary pole number. , 2014, , .		4
672	Comparison of variable flux reluctance, switched flux and fractional slot PM12-stator slots machines having 10- and 14-rotor poles. , 2014, , .		4
673	On-load voltage distortion compensation method using disturbance observer for SPM machines with closed slot. Chinese Journal of Electrical Engineering, 2015, 1, 58-69.	3.4	4
674	Comparison of partitioned stator machines with different PM excitation stator topologies. , 2015, , .		4
675	Comparative study of short-pitched and fully-pitched SRMs supplied by sine wave currents. , 2015, , .		4
676	Comparative study of alternative modular switched flux permanent magnet machines. , 2015, , .		4
677	High-performance partitioned-stator switched flux memory machines with hybrid magnets on external stator for traction applications. , 2016, , .		4
678	Sensitivity of manufacturing tolerances on cogging torque in interior permanent magnet machines with different slot/pole number. , 2016, , .		4
679	Comparative study of biased flux permanent magnet machines with doubly salient permanent magnet machines considering with influence of flux focusing. Electric Power Systems Research, 2016, 141, 281-289.	3.6	4
680	A novel stator-consequent-pole memory machine. , 2016, , .		4
681	Optimal design of a novel axial flux magnetically geared PM machine. , 2017, , .		4
682	Comparative study of doubly salient machines with/without stator slot permanent magnets. , 2017, , .		4
683	Comparative study of two permanent magnet linear machines. , 2017, , .		4
684	Comparison of end effect in series and parallel hybrid permanent magnet variable flux memory machines. , 2017, , .		4

#	ARTICLE	IF	CITATIONS
685	Influence of slot/pole combination and magnet thickness on unbalanced magnetic force in PM machines with different rotor eccentricities and magnetizations. , 2017, , .		4
686	Difference in unbalanced magnetic force of fractional-slot PM machines between interna and external rotor topologies. CES Transactions on Electrical Machines and Systems, 2017, 1, 154-163.	3.5	4
687	Uncontrolled Generator Fault Protection of Novel Hybrid-excited Permanent Magnet Machines Utilizing Field Excitation Current Control. , 2018, , .		4
688	A Comparative Study on Nine- and Twelve-Phase Flux-Switching Permanent-Magnet Wind Generators. , 2018, , .		4
689	Novel partitioned stator hybrid excited machines with magnets on slot openings. Journal of Engineering, 2019, 2019, 3568-3572.	1.1	4
690	Design and Simulation of a Brushless Self-Excited Air-Core Compensated Pulsed Alternator. IEEE Transactions on Plasma Science, 2019, 47, 2979-2986.	1.3	4
691	Simple Mechanical Rotor Position Estimation Method Based on Rotor Eccentricity. , 2019, , .		4
692	An Advanced Harmonic Compensation Strategy for Dual Three-Phase Permanent Magnet Synchronous Machines Considering Different Angle Displacements. , 2019, , .		4
693	Combined Lumped-Parameter and Simplified 2-D Analytical Thermal Model of Totally Enclosed Water Cooled PM Machine. , 2019, , .		4
694	Impact of Current Harmonic Injection on Performance of Multi-Phase Synchronous Reluctance Machines. IEEE Transactions on Energy Conversion, 2021, 36, 1649-1659.	5.2	4
695	Comparative Study of Electromagnetic Performance of Stator Slot PM Machines. IEEE Access, 2021, 9, 41876-41890.	4.2	4
696	Effect of Airgap Length on Electromagnetic Performance of Permanent Magnet Vernier Machines With Different Power Ratings. IEEE Transactions on Industry Applications, 2022, 58, 1920-1930.	4.9	4
697	Influence of Slot Number on Electromagnetic Performance of 2-pole High-Speed Permanent Magnet Motors with Toroidal Windings. , 2020, , .		4
698	Enhancement of Disturbance Rejection Capability in Dual Three Phase PMSM System by Using Virtual Impedance. , 2020, , .		4
699	Improved Sensorless Control Method for Permanent Magnet Synchronous Machines Considering Resistance Asymmetry and Temperature Variation. , 2020, , .		4
700	Investigation of Asymmetric Consequent-Pole Hybrid Excited Flux Reversal Machines. , 2020, , .		4
701	Optimization and Improvement of Advanced Nonoverlapping Induction Machines for EVs/HEVs. IEEE Access, 2022, 10, 13329-13353.	4.2	4
702	Investigation of Stator/Rotor Pole Number Combinations and PM Numbers in Consequent-Pole Hybrid Excited Flux Reversal Machine. IEEE Transactions on Energy Conversion, 2022, , 1-1.	5.2	4



#	ARTICLE	IF	CITATIONS
703	Estimation of Two- and Three-dimensional Spatial Magnet Temperature Distributions for Interior PMSMs Based on Hybrid Analytical and Lumped-parameter Thermal Model. IEEE Transactions on Energy Conversion, 2022, , 1-1.	5.2	4
704	Simplified 3-D Hybrid Analytical Modelling of Magnet Temperature Distribution for Surface-mounted PMSM With Segmented Magnets. IEEE Transactions on Industry Applications, 2022, 58, 4474-4487.	4.9	4
705	A Commutation Optimization Strategy for High-Speed Brushless DC Drives With Voltage Source Inverter. IEEE Transactions on Industry Applications, 2022, 58, 4722-4732.	4.9	4
706	Influence of motor topologies and design parameters on the starting torque of a single-phase PM brushless DC motor. , 0, , .		3
707	Influence of the fan cowl on the acoustic noise radiated from PWM controlled induction machines. , 0, , .		3
708	Comparison of Halbach magnetized brushless motors equipped with air-cored and iron-cored rotors. Journal of Applied Physics, 2003, 93, 8692-8694.	2.5	3
709	Simplified EKF based sensorless direct torque control of permanent magnet brushless AC drives. International Journal of Automation and Computing, 2004, 1, 35-41.	4.5	3
710	Application of full-order and simplified EKFs to sensorless PM brushless AC machines. International Journal of Automation and Computing, 2005, 2, 179-186.	4.5	3
711	Predictive current control with current error correction for PM brushless AC drives. , 2005, , .		3
712	Analysis and modeling of open-circuit airgap field distributions in multi-segment and multilayer interior permanent magnet machines. , 2008, , .		3
713	Modeling and simulation of parameter identification for PMSM based on EKF. , 2010, , .		3
714	Influence of alternate slot openings on torque-speed characteristics and cogging torque of fractional slot IPM brushless AC machines. , 2011, , .		3
715	Novel switched flux machine with radial and circumferential permanent magnets. , 2014, , .		3
716	Performance comparison of partitioned stator machines with NdFeB and ferrite magnets. , 2015, , .		3
717	Permanent magnet magnetization state estimation using high frequency signal injection. , 2015, , .		3
718	Torque Improvement Utilizing Third Harmonic Current in Five-Phase PM Machines with Unequal Tooth. , 2016, , .		3
719	Design and Investigation of Flux Weakening Capability in Variable Flux Reluctance Machine. , 2016, , .		3
720	Iron Loss in Surface-Mounted PM Machines Considering Tooth-Tip Local Magnetic Saturation. , 2016, , .		3

#	ARTICLE	IF	CITATIONS
721	On-Load Performance in IPM Machines Having Different Slot/Pole Number Combinations Considering Local Magnetic Saturation. , 2016, , .		3
722	Comparative study of current control methods of asymmetric PM synchronous machine. , 2016, , .		3
723	Influence of PM coating on PM magnetization state estimation methods based on magnetoresistive effect. , 2016, , .		3
724	Effectiveness of Terminal Voltage Distortion Minimization Methods in Fractional Slot Surface-Mounted Permanent Magnet Machines Considering Local Magnetic Saturation. IEEE Transactions on Energy Conversion, 2016, 31, 1090-1099.	5.2	3
725	Influence of end-effect on torque-speed characteristics of various switched flux permanent magnet machine topologies. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2016, 35, 525-539.	0.9	3
726	Experimental investigation of a partitioned stator flux reversal permanent magnet linear machine. , 2017, , .		3
727	Design considerations for high-power converters interfacing 10 MW superconducting wind power generators. IET Power Electronics, 2017, 10, 1461-1467.	2.1	3
728	Electromagnetic Performance Comparison between 12- Phase Switched Flux and Surface-Mounted PM Machines for Direct-Drive Wind Power Generation. , 2018, , .		3
729	Optimal Flux Modulation Pole Number in Vernier Permanent Magnet Synchronous Machines. , 2018, , .		3
730	Investigation of Integer/Fractional Slot Consequent Pole PM Machines with Different Rotor Structures. , 2019, , .		3
731	Safety Operation Area of Zero-Crossing Detection based Sensorless High Speed BLDC Motor Drives. , 2019, , .		3
732	Influence of stator and rotor geometric parameters on rotor bar current waveform and performance of IMs. Journal of Engineering, 2019, 2019, 3649-3654.	1.1	3
733	Virtual Third Harmonic Back-EMF Based Sensorless Drive for High Speed BLDC Motors Considering Machine Parameter Asymmetries. , 2019, , .		3
734	On-load demagnetization effect of high-coercive-force PMs in switched flux hybrid magnet memory machine. AIP Advances, 2019, 9, .	1.3	3
735	Analysis of Dual 3-Phase Fractional-Slot Concentrated Winding PM Synchronous Machines with Different Angle Displacements. , 2019, , .		3
736	Analysis of Flux Regulation Principle in a Novel Hybrid-Magnet-Circuit Variable Flux Memory Machine. , 2019, , .		3
737	Effect of Airgap Length on Electromagnetic Performance of Surface Mounted Permanent Magnet Vernier Machine. , 2020, , .		3
738	Analytical Modelling of Dynamic Performance with Harmonic Current Injection for Doubly Salient SYNRM. IEEE Transactions on Industry Applications, 2020, , 1-1.	4.9	3

#	ARTICLE	IF	CITATIONS
739	Investigation of Torque Characteristics of Switched Flux Hybrid Magnet Memory Machine by a Coupled Solution. IEEE Transactions on Magnetics, 2020, 56, 1-5.	2.1	3
740	Two-Phase DC-Biased Vernier Reluctance Machines. IEEE Transactions on Magnetics, 2021, 57, 1-5.	2.1	3
741	Novel Single-Phase Short-Stroke Tubular Permanent Magnet Oscillating Machines with Partitioned Stator. Energies, 2021, 14, 1863.	3.1	3
742	A Position Error Correction Method for Sensorless Control of Dual Three-Phase Permanent Magnet Synchronous Machines. , 2021, , .		3
743	Effect of Pole Shaping on Torque Characteristics of Consequent Pole PM Machines. , 2021, , .		3
744	Analysis of DC-Biased Vernier Reluctance Machines Having Distributed Windings. IEEE Transactions on Magnetics, 2021, 57, 1-5.	2.1	3
745	Influence of rotor iron bridge position on DC-winding-induced voltage in wound field switched flux machine having partitioned stators. Chinese Journal of Electrical Engineering, 2021, 7, 20-28.	3.4	3
746	Enhancement of torque density in wound field switched flux machines with partitioned stators using assisted ferrites. Chinese Journal of Electrical Engineering, 2021, 7, 42-51.	3.4	3
747	An Online Position Error Correction Method for Sensorless Control of Permanent Magnet Synchronous Machine With Parameter Mismatch. IEEE Access, 2021, 9, 135708-135722.	4.2	3
748	Hybrid virtual impedance-based control strategy for DFIG in hybrid wind farm to disperse negative sequence current during network unbalance. IET Renewable Power Generation, 2020, 14, 2268-2277.	3.1	3
749	Influence of Rotor Pole Number on Electromagnetic Performance of Double-Stator Switched Flux PM Machines. , 2016, , .		3
750	Investigation of a hybrid excited doubly salient machine with permanent magnets located on stator slot openings. IET Electric Power Applications, 2020, 14, 1541-1549.	1.8	3
751	Reduction of Open-Circuit DC Winding Induced Voltage and Torque Pulsation in the Wound Field Switched Flux Machine by Stator Axial Pairing of Tooth-Tips. , 2020, , .		3
752	Influence of Armature Reaction on Magnetic-Field-Shifting Effect in Asymmetric Interior Permanent Magnet Machines. IEEE Transactions on Energy Conversion, 2022, 37, 1475-1488.	5.2	3
753	Voltage Pulsation Induced in DC Field Winding of Different Hybrid Excitation Switched Flux Machines. , 2020, , .		3
754	Inverter Nonlinearity Compensation for Open-Winding Machine With Dual Switching Modes. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 6180-6191.	5.4	3
755	Flux-Adjustable Permanent Magnet Machines in Traction Applications. World Electric Vehicle Journal, 2022, 13, 60.	3.0	3
756	A Position Error Correction Method for Sensorless Control of Dual Three-Phase Permanent Magnet Synchronous Machines. IEEE Transactions on Industry Applications, 2022, 58, 3589-3601.	4.9	3

#	ARTICLE	IF	CITATIONS
757	AN improved method for predicting iron losses in brushless permanent magnet DC drives. , 0, , .		2
758	CURVATURE EFFECTS IN RADIAL-FIELD PERMANENT MAGNET MACHINES. Electric Power Components and Systems, 1994, 22, 511-520.	0.1	2
759	Design of powder alignment system for anisotropic bonded NdFeB halbach cylinders. , 0, , .		2
760	Improved speed estimation in sensorless PM brushless AC drives. , 0, , .		2
761	Rotor resonances of high-speed permanent magnet brushless machines. , 0, , .		2
762	Comparison of Halbach magnetised brushless machines having discrete magnet segments or single ring magnet. , 0, , .		2
763	Comparison of rotor eddy current losses in permanent magnet motor and generator. , 2011, , .		2
764	Investigation of rotor eddy current losses in fractional slot PM machines with solid rotor back-iron. , 2011, , .		2
765	Losses and efficiency in alternate switched-flux permanent magnet machines. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2011, 31, 54-70.	0.9	2
766	Robust initial rotor position estimation of permanent magnet brushless AC machines with carrier signal injection-based sensorless control. , 2012, , .		2
767	Analysis of claw-pole rotor brushless machine with DC excitation by lumped-parameter magnetic circuit model. , 2012, , .		2
768	Electromagnetic performance analysis of synchronous reluctance machines having non-overlapping concentrated winding and AC sinusoidal bipolar with DC bias excitation. , 2013, , .		2
769	Carrier signal injection based sensorless control of permanent magnet synchronous machines without the need of magnetic polarity identification. , 2015, , .		2
770	Operating-envelop-expandable control strategy for switched flux hybrid magnet memory machine. , 2016, , .		2
771	Nonintrusive online rotor permanent magnet temperature tracking for permanent magnet synchronous machine based on third harmonic voltage. , 2016, , .		2
772	Influence of stator configuration on high frequency signal injection based permanent magnet temperature estimation methods in PMSMs. , 2016, , .		2
773	Influence of Magnet Height on Unbalanced Magnetic Force of Surface-Mounted Permanent Magnet Machines. , 2016, , .		2
774	Influence of slot opening and flux gaps on the voltage distortion in SPM machines. , 2016, , .		2

#	ARTICLE	IF	CITATIONS
775	Torque investigation of fractional-slot permanent magnet machines with different winding topology and stator structures. , 2016, , .		2
776	Comparative study of voltage distortion in fractional-slot PM machines having different winding and stator configurations. , 2016, , .		2
777	Iron loss model under DC bias flux density considering temperature influence. , 2017, , .		2
778	Novel variable reluctance hybrid magnet memory machines. , 2017, , .		2
779	Investigation of torque production and torque ripple reduction method for 6-stator/7-rotor-pole variable flux reluctance machines. , 2017, , .		2
780	Flexible unbalance compensation strategy for doubly fed induction generator based on a novel indirect virtual impedance method. IET Renewable Power Generation, 2018, 12, 28-36.	3.1	2
781	Influence of magnet eddy current on magnetization characteristics of variable flux memory machine. AIP Advances, 2018, 8, 056602.	1.3	2
782	Duty-Ratio-Based Direct Torque Control for Dual Three-Phase Permanent Magnet Synchronous Machine Drives. , 2018, , .		2
783	Fuzzy Logic Speed Controller with Adaptive Voltage Feedback Controller of Permanent Magnet Synchronous Machine. , 2018, , .		2
784	Comparative analysis of variable flux reluctance machines with double- and single-layer concentrated armature windings. , 2018, , .		2
785	A Novel Rotor Initial Position Detection Method Utilizing DC-link Voltage Sensor. , 2019, , .		2
786	Study of Manufacturing Tolerance of Modular Permanent Magnet Machines: Segment Radial Displacement. , 2019, , .		2
787	Reduction of Open-Circuit DC Winding Induced Voltage in Hybrid-Excited Switched -Flux Permanent Magnet Machine. , 2019, , .		2
788	Analysis of power factor in variable flux reluctance machines with MMF&epsilonpermeance model. IET Electric Power Applications, 2019, 13, 614-624.	1.8	2
789	Compensation of Current Harmonics for Switching-Table-Based Direct Torque Control of Dual Three-Phase PMSM Drive. , 2019, , .		2
790	Comparative Analysis of Novel Fractional Slot Non-overlapping Winding Hybrid Excited Machines Having Different Consequent Pole Rotor Topologies. , 2019, , .		2
791	Comparison of 6-slot/2-pole High-Speed Permanent Magnet Motors with Different Winding Configurations. , 2020, , .		2
792	Feasible Stator/Rotor Pole Combinations of Variable Flux Reluctance Machines With Second Harmonic Current Injection Method. IEEE Transactions on Industry Applications, 2020, 56, 4785-4795.	4.9	2

#	ARTICLE	IF	CITATIONS
793	Recent Developments of High Speed Electrical Machine Drive Systems. , 2021, , .		2
794	A Low Switching Frequency SPWM Strategy for Open-winding Machine with Low Current Harmonics. , 2021, , .		2
795	Modeling and Optimization of Low-Capacitance Half-Bridge Modular Multilevel Converters Operated With Average Submodule Capacitor Voltage Control. IEEE Transactions on Industry Applications, 2021, 57, 6131-6144.	4.9	2
796	Comparative Study of Dual PM Vernier Machines. World Electric Vehicle Journal, 2021, 12, 12.	3.0	2
797	Comparative study of dual 3â€phase permanent magnet machines with coil span of two slotâ€pitches. IET Electric Power Applications, 2022, 16, 1426-1438.	1.8	2
798	Investigation on Symmetrical Characteristics of Consequent-Pole Flux Reversal Permanent Magnet Machines with Concentrated Windings. IEEE Transactions on Energy Conversion, 2022, , 1-1.	5.2	2
799	Vibrations and Acoustic Noise Analyses of Modular SPM Machines. , 2020, , .		2
800	Tracking of Winding and Magnet Hotspots in SPMSMs Based on Synergized Lumped-parameter and Sub-domain Thermal Models. IEEE Transactions on Energy Conversion, 2022, , 1-1.	5.2	2
801	Calculation Of Cogging Force In A Novel Slotted Linear Tubular Brushless Permanent Magnet Motor. , 1997, , .		1
802	Eddy current loss in a moving-coil linear tubular permatant magnet brushless motor. , 1999, , .		1
803	Analysis of anisotropic bonded ndfeb halbach cylinders accounting for partial powder alignment. , 0, , .		1
804	Investigation of acoustic noise radiated from direct torque controlled induction machines. , 0, , .		1
805	Calculation of DQ-axis inductances of PM brushless ac machines accounting for skew. , 2005, , .		1
806	Improved sensorless operation of interior PM BLAC motor drives with reduced-order EKF. International Journal of Automation and Computing, 2006, 3, 99-106.	4.5	1
807	Influence of Machine Topology and Cross-Coupling Magnetic Saturation on Rotor Position Estimation Accuracy in Extended Back-EMF Based Sensorless PM Brushless AC Drives. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2007, , .	0.0	1
808	Comparison of drive performance of PM synchronous machine fed by inverters with different PWM strategies in constant torque and constant power regions. , 2011, , .		1
809	Saliency investigation of switched-flux PM brushless AC machine for saliency-tracking-based sensorless control. , 2012, , .		1
810	Torque ripple and magnetic forces on teeth in IPM machines. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2014, 33, 1487-1501.	0.9	1

#	ARTICLE	IF	CITATIONS
811	Flux-weakening control performance of partitioned stator switched flux PM machines. , 2015, , .		1
812	A partitioned stator permanent magnet machine for HEV/EV applications. , 2015, , .		1
813	Comparative analysis of parasitic losses in partitioned stator switched flux PM machines with double- and single-layer windings. , 2015, , .		1
814	On-load performance of fractional slot SPM machines considering tooth-tip local magnetic saturation. , 2016, , .		1
815	Influence of rotor-pole number on electromagnetic performance in twelve-phase redundant SFPM machines for wind power generation. , 2016, , .		1
816	Novel switched flux machine with radial and circumferential permanent magnets. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2016, 35, 473-492.	0.9	1
817	Design of external rotor switched flux memory machine with hybrid magnets. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2016, 35, 507-524.	0.9	1
818	Unbalanced magnetic force mitigation in 3-slot/2-pole permanent magnet machine by inserting auxiliary slots. , 2017, , .		1
819	Modified PWM-Based Deadbeat Direct Torque Control for Dual Three-Phase Permanent Magnet Synchronous Machine Drive. , 2017, , .		1
820	Influence of stator/rotor pole combination on electromagnetic performance in all/alternate poles wound partitioned stator doubly salient permanent magnet machines. Journal of Engineering, 2017, 2017, 237-245.	1.1	1
821	Comparison of Frequency and Time Domain Based Current Profiling Techniques for Acoustic Noise Reduction in Switched Reluctance Machine. , 2018, , .		1
822	Comparison of Torque Production and Design of Switched Reluctance and Variable Flux Reluctance Machines. , 2018, , .		1
823	Influence of Rotor Slot Number on Flux Weakening Characteristics of Induction Machines. , 2018, , .		1
824	Comparison of Modular Dual 3-phase PM Machines with Overlapping/Non-overlapping Windings. , 2018, , .		1
825	A Simple PWM-based Direct Torque Control for Dual Three-phase Permanent Magnet Synchronous Machine Drives. , 2018, , .		1
826	Torque Performance Improvement of Doubly Salient Synchronous Reluctance Machines by Current Harmonic Injection. , 2019, , .		1
827	Influence of static and dynamic rotor/stator misalignments in axial flux magnetically geared machines. Journal of Engineering, 2019, 2019, 3991-3996.	1.1	1
828	A Novel Stator Spoke-Type Hybrid Magnet Memory Machine. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
829	A Vector Selection Based Common Mode Voltage Reduction Strategy for Dual Three Phase Permanent Magnet Synchronous Wind Power Generators Considering Harmonic Suppression. , 2019, , .		1
830	Losses in Different Doubly Salient Synchronous Reluctance Machines with Current Harmonic Injection. , 2019, , .		1
831	Analysis of Novel Hybrid-Magnet-Circuit Variable Flux Memory Machines with Different Magnet Arrangements. , 2019, , .		1
832	Interactions of Capacitor Voltage Ripple with the Closed Loop Controllers in Low-Capacitance Modular Multilevel Converters. , 2019, , .		1
833	Analysis of Excitation Winding Induced EMF in Non-Overlapped Stator Wound Field Synchronous Machines. IEEE Transactions on Energy Conversion, 2022, 37, 685-695.	5.2	1
834	Analysis of Novel Dual-PM Vernier Machines. , 2021, , .		1
835	Six-phase Pole Changing Winding Induction Machine with 3rd Harmonic Injection. , 2021, , .		1
836	Simultaneous Sensorless Rotor Position and Torque Estimation for IPMSM at Standstill and Low Speed Based on High-Frequency Square Wave Voltage Injection. IEEE Transactions on Industrial Electronics, 2022, 69, 8791-8802.	7.9	1
837	Simplified 3-D Hybrid Analytical Modelling of Magnet Temperature Distribution for Surfacemounted PMSM with Segmented Magnets. , 2021, , .		1
838	Performance and operability of an electrically driven propulsor. International Journal of Engine Research, 0, , 146808742110663.	2.3	1
839	AC Losses in Form-Wound Coils of Surface Mounted Permanent Magnet Vernier Machines. IEEE Transactions on Magnetics, 2022, 58, 1-15.	2.1	1
840	Vibrational Torques in Single-Phase Induction Motors and Their Relation to Vibration and Noise. Electric Power Components and Systems, 1992, 20, 483-492.	0.1	0
841	Electromagnetic Modelling O F A Rolling Rotor Actuator. , 1993, , .		0
842	Optimal Dimensioning Of A High-Speed Brushless Motor With Diametrically Magnetised Rotor. , 0, , .		0
843	Optimisation of slotless brushless permanent magnet machines. , 0, , .		0
844	Iron loss in PM brushless AC machines under maximum torque per ampere and flux weakening control. , 0, , .		0
845	Performance of Halbach magnetised brushless ac motor. , 0, , .		0
846	Analysis of cogging torque in brushless machines having non-uniformly distributed stator slots and stepped rotor magnets. , 2005, , .		0



#	ARTICLE	IF	CITATIONS
847	Improved Signal Injection Based Sensorless Technique for PM Brushless AC Drives. , 2007, , .		0
848	Improved Rotor Position Estimation by Signal Injection in Brushless AC Motors, Accounting for Cross-Coupling Magnetic Saturation. Conference Record - IAS Annual Meeting (IEEE Industry) Tj ETQq0 0 0 rgBT /Ooed clock 100Tf 50 697		0
849	Sensorless vector control of non-salient BLAC machines based on a modified rotor flux-linkage observer. , 2009, , .		0
850	Development of a Segmented Linear Variable Flux Reluctance Motor with DC-Field Coil. Applied Mechanics and Materials, 0, 416-417, 203-208.	0.2	0
851	Comparison of Linear Switched Flux Permanent Magnet Machines. Applied Mechanics and Materials, 0, 416-417, 121-126.	0.2	0
852	Comparison of fast permanent magnet flux estimation methods for railway traction application PMSMs. , 2013, , .		0
853	Influence of stator and rotor pole number combinations and winding configurations on flux-weakening performance of switched-flux PM machines. , 2013, , .		0
854	Novel external rotor switched flux memory motor with hybrid magnets. , 2014, , .		0
855	Difference in maximum torque-speed characteristics of induction machine between motor and generator operation modes for electric vehicle application. , 2014, , .		0
856	Parametric design optimization of axial field partitioned stator switched flux PM machine. , 2015, , .		0
857	On-load magnetization characteristic analysis of a novel partitioned stator hybrid magnet memory machine. , 2016, , .		0
858	Novel Partitioned Stator Hybrid Magnet Memory Machines for EV/HEV Applications. , 2016, , .		0
859	Active voltage regulation of partitioned stator switched flux permanent magnet generator supplying isolated passive load. , 2016, , .		0
860	Novel design of a variable reluctance permanent magnet machine with bipolar coil flux-linkage. , 2016, , .		0
861	Sixth-Harmonic Back-EMF Based Sensorless Control for Switched-Flux Permanent Magnet Machines. , 2016, , .		0
862	Torque improvement of five-phase surface-mounted permanent magnet machine using third-order harmonic. , 2016, , .		0
863	Sub-domain analytical model for armature reaction field of permanent magnet vernier machine. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2016, 35, 821-831.	0.9	0
864	Iron loss model for electrical machines fed by low switching frequency PWM. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
865	Analysis of unipolar leakage flux in series-hybrid permanent magnet machines. , 2017, , .		0
866	Fast optimal design method of variable flux reluctance machines for maximizing the average torque. , 2017, , .		0
867	A Partitioned Stator Variable Flux Reluctance Machine. , 2018, , .		0
868	Effect of tooth tips on the electromagnetic performance of PM fractional-slot modular machines using grain-oriented electrical steel. Journal of Engineering, 2019, 2019, 4386-4390.	1.1	0
869	Analysis of Open-Circuit DC Winding Induced Voltage in Partitioned-Stator Hybrid-Excited Switched-Flux Machine. , 2019, , .		0
870	Dynamic Performance Investigation of Doubly Salient Synchronous Reluctance Machines with Current Harmonic Injection. , 2019, , .		0
871	Comparison of Magnetically Geared and Surface-mounted PM machines - Influence of Machine Size and Current Density. , 2019, , .		0
872	A new simplified fundamental model-based sensorless control method for surface-mounted permanent magnet synchronous machines. IET Electric Power Applications, 2021, 15, 159-170.	1.8	0
873	Analysis of Stator-Slot Circumferentially Magnetized PM Machines with Full-Pitched Windings. World Electric Vehicle Journal, 2021, 12, 33.	3.0	0
874	Comparative Study of Transverse Flux Permanent Magnet Machines for Wind Power Applications. , 2021, , .		0
875	Analysis of Rotor Eccentricity Effects on Saliency Tracking Based Sensorless Control of Permanent Magnet Synchronous Machine. , 2021, , .		0
876	Arbitrary Current Harmonic Decomposition and Regulation for Permanent Magnet Synchronous Machines. IEEE Transactions on Industrial Electronics, 2023, 70, 4392-4404.	7.9	0
877	Investigation of Variable Field Harmonic Principle in Hybrid-Excited Switched-Flux Machine. , 2022, , .		0