Kwok Tong Chau

List of Publications by Year
in descending order

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452 papers	16,981 citations	16451 64 h-index	24258 110 g-index
478 all docs	478 docs citations	478 times ranked	6953 citing authors

#	Article	IF	Citations
1	Overview of Permanent-Magnet Brushless Drives for Electric and Hybrid Electric Vehicles. IEEE Transactions on Industrial Electronics, 2008, 55, 2246-2257.	7.9	1,186
2	Opportunities and Challenges of Vehicle-to-Home, Vehicle-to-Vehicle, and Vehicle-to-Grid Technologies. Proceedings of the IEEE, 2013, 101, 2409-2427.	21.3	612
3	Overview of power management in hybrid electric vehicles. Energy Conversion and Management, 2002, 43, 1953-1968.	9.2	367
4	An overview of power electronics in electric vehicles. IEEE Transactions on Industrial Electronics, 1997, 44, 3-13.	7.9	353
5	Design of a Magnetic-Geared Outer-Rotor Permanent-Magnet Brushless Motor for Electric Vehicles. IEEE Transactions on Magnetics, 2007, 43, 2504-2506.	2.1	325
6	Thermoelectric automotive waste heat energy recovery using maximum power point tracking. Energy Conversion and Management, 2009, 50, 1506-1512.	9.2	292
7	Emerging Energy-Efficient Technologies for Hybrid Electric Vehicles. Proceedings of the IEEE, 2007, 95, 821-835.	21.3	287
8	A Magnetic-Geared Outer-Rotor Permanent-Magnet Brushless Machine for Wind Power Generation. IEEE Transactions on Industry Applications, 2009, 45, 954-962.	4.9	274
9	A Coaxial Magnetic Gear With Halbach Permanent-Magnet Arrays. IEEE Transactions on Energy Conversion, 2010, 25, 319-328.	5.2	230
10	A New Efficient Permanent-Magnet Vernier Machine for Wind Power Generation. IEEE Transactions on Magnetics, 2010, 46, 1475-1478.	2.1	220
11	An overview of energy sources for electric vehicles. Energy Conversion and Management, 1999, 40, 1021-1039.	9.2	204
12	Design and analysis of a new doubly salient permanent magnet motor. IEEE Transactions on Magnetics, 2001, 37, 3012-3020.	2.1	185
13	Overview of batteries and battery management for electric vehicles. Energy Reports, 2022, 8, 4058-4084.	5.1	184
14	Field-Oriented Control and Direct Torque Control for Paralleled VSIs Fed PMSM Drives With Variable Switching Frequencies. IEEE Transactions on Power Electronics, 2016, 31, 2417-2428.	7.9	173
15	An Efficient Windâ€“Photovoltaic Hybrid Generation System Using Doubly Excited Permanent-Magnet Brushless Machine. IEEE Transactions on Industrial Electronics, 2010, 57, 831-839.	7.9	160
16	A Permanent-Magnet Hybrid Brushless Integrated Starterâ€“Generator for Hybrid Electric Vehicles. IEEE Transactions on Industrial Electronics, 2010, 57, 4055-4064.	7.9	159
17	Comparison of Coaxial Magnetic Gears With Different Topologies. IEEE Transactions on Magnetics, 2009, 45, 4526-4529.	2.1	157
18	Integrated Energy Management of Plug-in Electric Vehicles in Power Grid With Renewables. IEEE Transactions on Vehicular Technology, 2014, 63, 3019-3027.	6.3	156

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19	Novel permanent magnet motor drives for electric vehicles. IEEE Transactions on Industrial Electronics, 1996, 43, 331-339.	7.9	149
20	Nonlinear varying-network magnetic circuit analysis for doubly salient permanent-magnet motors. IEEE Transactions on Magnetics, 2000, 36, 339-348.	2.1	149
21	Acoustic noise radiated by PWM-controllel induction machine drives. IEEE Transactions on Industrial Electronics, 2000, 47, 880-889.	7.9	140
22	Static characteristics of a new doubly salient permanent magnet motor. IEEE Transactions on Energy Conversion, 2001, 16, 20-25.	5.2	136
23	Remedial Injected-Harmonic-Current Operation of Redundant Flux-Switching Permanent-Magnet Motor Drives. IEEE Transactions on Industrial Electronics, 2013, 60, 151-159.	7.9	127
24	An Overview of Resonant Circuits for Wireless Power Transfer. Energies, 2017, 10, 894.	3.1	127
25	A new three-phase doubly salient permanent magnet machine for wind power generation. IEEE Transactions on Industry Applications, 2006, 42, 53-60.	4.9	126
26	A Critical Review of Advanced Electric Machines and Control Strategies for Electric Vehicles. Proceedings of the IEEE, 2021, 109, 1004-1028.	21.3	124
27	Design, Analysis, and Control of DC-Excited Memory Motors. IEEE Transactions on Energy Conversion, 2011, 26, 479-489.	5.2	117
28	An Effective Sandwiched Wireless Power Transfer System for Charging Implantable Cardiac Pacemaker. IEEE Transactions on Industrial Electronics, 2019, 66, 4108-4117.	7.9	117
29	Energy Encryption for Wireless Power Transfer. IEEE Transactions on Power Electronics, 2015, 30, 5237-5246.	7.9	111
30	Torque Ripple Minimization of Doubly Salient Permanent-Magnet Motors. IEEE Transactions on Energy Conversion, 2005, 20, 352-358.	5.2	109
31	Sensorless SVPWM-FADTC of a New Flux-Modulated Permanent-Magnet Wheel Motor Based on a Wide-Speed Sliding Mode Observer. IEEE Transactions on Industrial Electronics, 2015, 62, 3143-3151.	7.9	109
32	Homogeneous Wireless Power Transfer for Move-and-Charge. IEEE Transactions on Power Electronics, 2015, 30, 6213-6220.	7.9	107
33	A new battery available capacity indicator for electric vehicles using neural network. Energy Conversion and Management, 2002, 43, 817-826.	9.2	106
34	Development of a New Brushless Doubly Fed Doubly Salient Machine for Wind Power Generation. IEEE Transactions on Magnetics, 2006, 42, 3455-3457.	2.1	106
35	Design and Analysis of Linear Stator Permanent Magnet Vernier Machines. IEEE Transactions on Magnetics, 2011, 47, 4219-4222.	2.1	103
36	Application of Linear Magnetic Gears for Pseudo-Direct-Drive Oceanic Wave Energy Harvesting. IEEE Transactions on Magnetics, 2011, 47, 2624-2627.	2.1	102

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37	Adaptive neuro-fuzzy modeling of battery residual capacity for electric vehicles. IEEE Transactions on Industrial Electronics, 2002, 49, 677-684.	7.9	99
38	Design and Control of a New Double-Stator Cup-Rotor Permanent-Magnet Machine for Wind Power Generation. IEEE Transactions on Magnetics, 2007, 43, 2501-2503.	2.1	99
39	A Transient Cosimulation Approach to Performance Analysis of Hybrid Excited Doubly Salient Machine Considering Indirect Field-Circuit Coupling. IEEE Transactions on Magnetics, 2007, 43, 2558-2560.	2.1	94
40	Design, Modeling, and Analysis of a Brushless Doubly Fed Doubly Salient Machine for Electric Vehicles. IEEE Transactions on Industry Applications, 2008, 44, 727-734.	4.9	93
41	Hybridization of energy sources in electric vehicles. Energy Conversion and Management, 2001, 42, 1059-1069.	9.2	92
42	Nonlinear magnetic circuit analysis for a novel stator doubly fed doubly salient machine. IEEE Transactions on Magnetics, 2002, 38, 2382-2384.	2.1	92
43	Design of a New Outer-Rotor Permanent Magnet Hybrid Machine for Wind Power Generation. IEEE Transactions on Magnetics, 2008, 44, 1494-1497.	2.1	91
44	An automotive thermoelectricâ€“photovoltaic hybrid energy system using maximum power point tracking. Energy Conversion and Management, 2011, 52, 641-647.	9.2	91
45	A novel polyphase multipole square-wave permanent magnet motor drive for electric vehicles. IEEE Transactions on Industry Applications, 1994, 30, 1258-1266.	4.9	87
46	Analysis of chaos in current-mode-controlled DC drive systems. IEEE Transactions on Industrial Electronics, 2000, 47, 67-76.	7.9	85
47	Remedial Brushless AC Operation of Fault-Tolerant Doubly Salient Permanent-Magnet Motor Drives. IEEE Transactions on Industrial Electronics, 2010, 57, 2134-2141.	7.9	85
48	Control and operation of a new 8/6-pole doubly salient permanent-magnet motor drive. IEEE Transactions on Industry Applications, 2003, 39, 1363-1371.	4.9	81
49	Flexible Induction Heating Using Magnetic Resonant Coupling. IEEE Transactions on Industrial Electronics, 2017, 64, 1982-1992.	7.9	81
50	Overview of wireless power transfer for electric vehicle charging. , 2013, , .		80
51	Analytical Method for Magnetic Field Calculation in a Low-Speed Permanent-Magnet Harmonic Machine. IEEE Transactions on Energy Conversion, 2011, 26, 862-870.	5.2	79
52	A New Switched-Capacitor Boost-Multilevel Inverter Using Partial Charging. IEEE Transactions on Circuits and Systems II: Express Briefs, 2007, 54, 1145-1149.	3.0	77
53	Comparison of Stator-Permanent-Magnet Brushless Machines. IEEE Transactions on Magnetics, 2008, 44, 4405-4408.	2.1	77
54	A Novel Flux-Controllable Vernier Permanent-Magnet Machine. IEEE Transactions on Magnetics, 2011, 47, 4238-4241.	2.1	76

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55	Novel wide range speed control of permanent magnet brushless motor drives. IEEE Transactions on Power Electronics, 1995, 10, 539-546.	7.9	75
56	Design and Analysis of Wireless Switched Reluctance Motor Drives. IEEE Transactions on Industrial Electronics, 2019, 66, 245-254.	7.9	75
57	A novel stator doubly fed doubly salient permanent magnet brushless machine. IEEE Transactions on Magnetics, 2003, 39, 3001-3003.	2.1	73
58	Novel Design of Double-Stator Single-Rotor Magnetic-Geared Machines. IEEE Transactions on Magnetics, 2012, 48, 4180-4183.	2.1	72
59	Neural Network-Based Residual Capacity Indicator for Nickel-Metal Hydride Batteries in Electric Vehicles. IEEE Transactions on Vehicular Technology, 2005, 54, 1705-1712.	6.3	70
60	A new battery capacity indicator for lithium-ion battery powered electric vehicles using adaptive neuro-fuzzy inference system. Energy Conversion and Management, 2004, 45, 1681-1692.	9.2	69
61	Dynamic Performance Evaluation of a Nine-Phase Flux-Switching Permanent-Magnet Motor Drive With Model Predictive Control. IEEE Transactions on Industrial Electronics, 2016, 63, 4539-4549.	7.9	68
62	Comparison of Flux-Switching PM Motors With Different Winding Configurations Using Magnetic Gearing Principle. IEEE Transactions on Magnetics, 2016, 52, 1-8.	2.1	68
63	Spectral analysis of a new six-phase pole-changing induction motor drive for electric vehicles. IEEE Transactions on Industrial Electronics, 2003, 50, 123-131.	7.9	67
64	Power Factor Improvement of a Linear Vernier Permanent-Magnet Machine Using Auxiliary DC Field Excitation. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	67
65	Time-Division Multiplexing Wireless Power Transfer for Separately Excited DC Motor Drives. IEEE Transactions on Magnetics, 2017, 53, 1-5.	2.1	66
66	A novel sliding-mode observer for indirect position sensing of switched reluctance motor drives. IEEE Transactions on Industrial Electronics, 1999, 46, 390-397.	7.9	65
67	Design and analysis of interior-magnet outer-rotor concentric magnetic gears. Journal of Applied Physics, 2009, 105, .	2.5	65
68	Design of high-torque-density double-stator permanent magnet brushless motors. IET Electric Power Applications, 2011, 5, 317.	1.8	65
69	Necrotizing enterocolitis in neonates with symptomatic congenital heart disease. Journal of Pediatrics, 1988, 113, 1044-1049.	1.8	64
70	Hopf Bifurcation and Chaos in Synchronous Reluctance Motor Drives. IEEE Transactions on Energy Conversion, 2004, 19, 296-302.	5.2	64
71	Stator-Flux-Oriented Fault-Tolerant Control of Flux-Switching Permanent-Magnet Motors. IEEE Transactions on Magnetics, 2011, 47, 4191-4194.	2.1	64
72	Experimental stabilization of chaos in a voltage-mode DC drive system. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2000, 47, 1093-1095.	0.1	63

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73	Design and Control of a PM Brushless Hybrid Generator for Wind Power Application. IEEE Transactions on Magnetics, 2006, 42, 3497-3499.	2.1	63
74	A new surface-inset, permanent-magnet, brushless DC motor drive for electric vehicles. IEEE Transactions on Magnetics, 2000, 36, 3810-3818.	2.1	62
75	Harmonic Analysis and Comparison of Permanent Magnet Vernier and Magnetic-Geared Machines. IEEE Transactions on Magnetics, 2011, 47, 3649-3652.	2.1	62
76	Transient analysis of a new outer-rotor permanent-magnet brushless DC drive using circuit-field-torque coupled time-stepping finite-element method. IEEE Transactions on Magnetics, 2002, 38, 1297-1300.	2.1	61
77	Comparison of Fault-Tolerant Operations for Permanent-Magnet Hybrid Brushless Motor Drive. IEEE Transactions on Magnetics, 2010, 46, 1378-1381.	2.1	61
78	An advanced permanent magnet motor drive system for battery-powered electric vehicles. IEEE Transactions on Vehicular Technology, 1996, 45, 180-188.	6.3	60
79	Chaoization of DC Motors for Industrial Mixing. IEEE Transactions on Industrial Electronics, 2007, 54, 2024-2032.	7.9	60
80	Design of Doubly Salient Permanent Magnet Motors With Minimum Torque Ripple. IEEE Transactions on Magnetics, 2009, 45, 4704-4707.	2.1	60
81	Overview of electric machines for electric and hybrid vehicles. International Journal of Vehicle Design, 2014, 64, 46.	0.3	58
82	Analytical Calculation of Magnetic Field in Surface-Inset Permanent Magnet Motors. IEEE Transactions on Magnetics, 2009, 45, 4688-4691.	2.1	57
83	Design of permanent magnets to avoid chaos in pm synchronous machines. IEEE Transactions on Magnetics, 2003, 39, 2995-2997.	2.1	56
84	A Novel Coaxial Magnetic Gear Using Bulk HTS for Industrial Applications. IEEE Transactions on Applied Superconductivity, 2010, 20, 981-984.	1.7	54
85	Analysis, design and experimental verification of a fieldâ€modulated permanentâ€magnet machine for directâ€drive wind turbines. IET Electric Power Applications, 2015, 9, 150-159.	1.8	54
86	Analysis of Tooth-Tip Flux Leakage in Surface-Mounted Permanent Magnet Linear Vernier Machines. IEEE Transactions on Magnetics, 2013, 49, 3949-3952.	2.1	53
87	Design and Analysis of a Stator-Doubly-Fed Doubly-Salient Permanent-Magnet Machine for Automotive Engines. IEEE Transactions on Magnetics, 2006, 42, 3470-3472.	2.1	52
88	Overview of Wireless Charging Technologies for Electric Vehicles. Journal of Asian Electric Vehicles, 2014, 12, 1679-1685.	0.4	52
89	Controllability and Performance of a Nine-Phase FSPM Motor Under Severe Five Open-Phase Fault Conditions. IEEE Transactions on Energy Conversion, 2016, 31, 323-332.	5.2	52
90	Improvement of Electromagnetic Compatibility of Motor Drives Using Chaotic PWM. IEEE Transactions on Magnetics, 2007, 43, 2612-2614.	2.1	51

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91	An LCC-Compensated Multiple-Frequency Wireless Motor System. IEEE Transactions on Industrial Informatics, 2019, 15, 6023-6034.	11.3	51
92	Multi-Frequency Multi-Power One-to-Many Wireless Power Transfer System. IEEE Transactions on Magnetics, 2019, 55, 1-9.	2.1	51
93	Performance Analysis of 8/6-Pole Doubly Salient Permanent Magnet Motor. Electric Power Components and Systems, 1999, 27, 1055-1067.	0.1	49
94	Anti-control of chaos of a permanent magnet DC motor system for vibratory compactors. Chaos, Solitons and Fractals, 2008, 36, 694-708.	5.1	49
95	Design and Analysis of Quasi-Omnidirectional Dynamic Wireless Power Transfer for Fly-and-Charge. IEEE Transactions on Magnetics, 2019, 55, 1-9.	2.1	49
96	Transient analysis of coaxial magnetic gears using finite element comodeling. Journal of Applied Physics, 2008, 103, 07F101.	2.5	47
97	An efficient wireless power transfer system with security considerations for electric vehicle applications. Journal of Applied Physics, 2014, 115, .	2.5	47
98	Linear primary permanent magnet vernier machine for wave energy conversion. IET Electric Power Applications, 2015, 9, 203-212.	1.8	47
99	Chaotic Speed Synchronization Control of Multiple Induction Motors Using Stator Flux Regulation. IEEE Transactions on Magnetics, 2012, 48, 4487-4490.	2.1	46
100	Modern electric machines and drives for wind power generation: A review of opportunities and challenges. IET Renewable Power Generation, 2021, 15, 1864-1887.	3.1	46
101	Subharmonics and chaos in switched reluctance motor drives. IEEE Transactions on Energy Conversion, 2002, 17, 73-78.	5.2	45
102	A Novel HTS PM Vernier Motor for Direct-Drive Propulsion. IEEE Transactions on Applied Superconductivity, 2011, 21, 1175-1179.	1.7	45
103	Comparison of Linear Primary Permanent Magnet Vernier Machine and Linear Vernier Hybrid Machine. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	45
104	Design and Analysis of a Cost-Effective Magnetless Multiphase Flux-Reversal DC-Field Machine for Wind Power Generation. IEEE Transactions on Energy Conversion, 2015, 30, 1565-1573.	5.2	45
105	Control and operation of fault-tolerant flux-switching permanent-magnet motor drive with second harmonic current injection. IET Electric Power Applications, 2012, 6, 707.	1.8	44
106	Overview of Thermoelectric Generation for Hybrid Vehicles. Journal of Asian Electric Vehicles, 2008, 6, 1119-1124.	0.4	43
107	A Wireless Servo Motor Drive With Bidirectional Motion Capability. IEEE Transactions on Power Electronics, 2019, 34, 12001-12010.	7.9	43
108	Analysis of Doubly Salient Memory Motors Using Preisach Theory. IEEE Transactions on Magnetics, 2009, 45, 4676-4679.	2.1	42

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109	Quantitative Analysis of Mutual Inductance for Optimal Wireless Power Transfer via Magnetic Resonant Coupling. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	42
110	Cost-Effectiveness Comparison of Coaxial Magnetic Gears With Different Magnet Materials. IEEE Transactions on Magnetics, 2014, 50, 821-824.	2.1	42
111	Full-Range Soft-Switching Pulse Frequency Modulated Wireless Power Transfer. IEEE Transactions on Power Electronics, 2020, 35, 6533-6547.	7.9	42
112	Design and Analysis of a HTS Brushless Doubly-Fed Doubly-Salient Machine. IEEE Transactions on Applied Superconductivity, 2011, 21, 1119-1122.	1.7	41
113	Design and control of a flux-controllable stator-permanent magnet brushless motor drive. Journal of Applied Physics, 2008, 103, 07F134.	2.5	40
114	Design and Analysis of Wireless Ballastless Fluorescent Lighting. IEEE Transactions on Industrial Electronics, 2019, 66, 4065-4074.	7.9	40
115	Estimation of battery available capacity under variable discharge currents. Journal of Power Sources, 2002, 103, 180-187.	7.8	39
116	A flux-mnemonic permanent magnet brushless motor for electric vehicles. Journal of Applied Physics, 2008, 103, 07F103.	2.5	39
117	Improvement of Electromagnetic Compatibility of Motor Drives Using Hybrid Chaotic Pulse Width Modulation. IEEE Transactions on Magnetics, 2011, 47, 4018-4021.	2.1	38
118	A fast and exact time-domain simulation of switched-mode power regulators. IEEE Transactions on Industrial Electronics, 1992, 39, 341-350.	7.9	37
119	Chaos in voltage-mode controlled DC drive systems. International Journal of Electronics, 1999, 86, 857-874.	1.4	37
120	Analysis of Eddy-Current Loss in a Double-Stator Cup-Rotor PM Machine. IEEE Transactions on Magnetics, 2008, 44, 4401-4404.	2.1	37
121	Simulation of a Tubular Linear Magnetic Gear Using HTS Bulks for Field Modulation. IEEE Transactions on Applied Superconductivity, 2011, 21, 1167-1170.	1.7	36
122	A New Flux-Mnemonic Dual-Magnet Brushless Machine. IEEE Transactions on Magnetics, 2011, 47, 4223-4226.	2.1	36
123	A new DC micro-grid system using renewable energy and electric vehicles for smart energy delivery. , 2010, , .		35
124	A Linear Doubly-Salient HTS Machine for Wave Energy Conversion. IEEE Transactions on Applied Superconductivity, 2011, 21, 1109-1113.	1.7	35
125	Design and Analysis of an Electronic-Geared Magnetless Machine for Electric Vehicles. IEEE Transactions on Industrial Electronics, 2016, 63, 6705-6714.	7.9	35
126	Design, Analysis, and Implementation of Wireless Shaded-Pole Induction Motors. IEEE Transactions on Industrial Electronics, 2021, 68, 6493-6503.	7.9	34

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127	Development of a new brushless doubly-fed doubly-salient machine for wind power generation. , 2006, , .		33
128	A Linear Stator Permanent Magnet Vernier HTS Machine for Wave Energy Conversion. IEEE Transactions on Applied Superconductivity, 2012, 22, 5202505-5202505.	1.7	33
129	Move-and-Charge System for Automatic Guided Vehicles. IEEE Transactions on Magnetics, 2018, 54, 1-5.	2.1	33
130	Analysis of electromagnetic and thermal fields for induction motors during starting. IEEE Transactions on Energy Conversion, 1994, 9, 53-60.	5.2	32
131	A new battery capacity indicator for nickelâ€“metal hydride battery powered electric vehicles using adaptive neuro-fuzzy inference system. Energy Conversion and Management, 2003, 44, 2059-2071.	9.2	32
132	Effective Charging Method for Ultracapacitors. Journal of Asian Electric Vehicles, 2005, 3, 771-776.	0.4	32
133	Quantitative comparison of double-stator and traditional permanent magnet brushless machines. Journal of Applied Physics, 2009, 105, 07F105.	2.5	32
134	Efficiency Optimization of a Permanent-Magnet Hybrid Brushless Machine Using DC Field Current Control. IEEE Transactions on Magnetics, 2009, 45, 4652-4655.	2.1	32
135	Stationary and mobile battery energy storage systems for smart grids. , 2011, , .		32
136	Transient Stability Analysis of SMES for Smart Grid With Vehicle-to-Grid Operation. IEEE Transactions on Applied Superconductivity, 2012, 22, 5701105-5701105.	1.7	32
137	Quantitative Comparison and Analysis of Magnetless Machines With Reluctance Topologies. IEEE Transactions on Magnetics, 2013, 49, 3969-3972.	2.1	32
138	Intraoperative TEE assessment of ventricular septal defect with aortic regurgitation. Annals of Thoracic Surgery, 1996, 61, 854-860.	1.3	31
139	New split-winding doubly salient permanent magnet motor drive. IEEE Transactions on Aerospace and Electronic Systems, 2003, 39, 202-210.	4.7	31
140	Modeling, analysis, and experimentation of chaos in a switched reluctance drive system. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2003, 50, 712-716.	0.1	31
141	A Magnetless Axial-Flux Machine for Range-Extended Electric Vehicles. Energies, 2014, 7, 1483-1499.	3.1	31
142	A New Magnetless Flux-Reversal HTS Machine for Direct-Drive Application. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-5.	1.7	31
143	Overview of magnetless brushless machines. IET Electric Power Applications, 2018, 12, 1117-1125.	1.8	31
144	Computer-aided modeling of quasi-resonant converters in the presence of parasitic losses by using the MISSCO concept. IEEE Transactions on Industrial Electronics, 1991, 38, 454-461.	7.9	30

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145	Neuro-fuzzy speed tracking control of traveling-wave ultrasonic motor drives using direct pulsewidth modulation. IEEE Transactions on Industry Applications, 2003, 39, 1061-1069.	4.9	30
146	Dual-Mode Operation of DC-Excited Memory Motors Under Flux Regulation. IEEE Transactions on Industry Applications, 2011, 47, 2031-2041.	4.9	30
147	Comparison and Analysis of Flux-Switching Permanent-Magnet Double-Rotor Machine With 4QT Used for HEV. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	30
148	Wireless DC Motor Drives with Selectability and Controllability. Energies, 2017, 10, 49.	3.1	30
149	A Wireless Dimmable Lighting System Using Variable-Power Variable-Frequency Control. IEEE Transactions on Industrial Electronics, 2020, 67, 8392-8404.	7.9	30
150	A Double-Rotor Flux-Switching Permanent-Magnet Motor for Electric Vehicles With Magnetic Differential. IEEE Transactions on Industrial Electronics, 2021, 68, 1004-1015.	7.9	30
151	Wireless Power and Drive Transfer for Piping Network. IEEE Transactions on Industrial Electronics, 2022, 69, 2345-2356.	7.9	30
152	A neural network controller for switching power converters. , 0, , .		29
153	A flux-mnemonic permanent magnet brushless machine for wind power generation. Journal of Applied Physics, 2009, 105, .	2.5	29
154	Performance Analysis of a Flux-Concentrating Field-Modulated Permanent-Magnet Machine for Direct-Drive Applications. IEEE Transactions on Magnetics, 2015, 51, 1-11.	2.1	29
155	Modular inductive power transmission system for high misalignment electric vehicle application. Journal of Applied Physics, 2015, 117, .	2.5	29
156	Research on a Single Phase-Loss Fault-Tolerant Control Strategy for a New Flux-Modulated Permanent-Magnet Compact In-Wheel Motor. IEEE Transactions on Energy Conversion, 2016, 31, 658-666.	5.2	29
157	A new zero-voltage switching DC/DC boost converter. IEEE Transactions on Aerospace and Electronic Systems, 1993, 29, 125-134.	4.7	28
158	An integrated magnetic-geared permanent-magnet in-wheel motor drive for electric vehicles. , 2008, , .		28
159	Torque ripple minimization of flux-controllable stator-permanent-magnet brushless motors using harmonic current injection. Journal of Applied Physics, 2009, 105, 07F102.	2.5	27
160	Servo Position Control of Ultrasonic Motors Using Fuzzy Neural Network. Electric Power Components and Systems, 2001, 29, 229-246.	1.8	26
161	New fault-tolerant flux-mnemonic doubly-salient permanent-magnet motor drive. IET Electric Power Applications, 2011, 5, 393.	1.8	26
162	Performance and Cost Comparison of Permanent-Magnet Vernier Machines. IEEE Transactions on Applied Superconductivity, 2012, 22, 5202304-5202304.	1.7	26

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163	A High-Torque Magnetless Axial-Flux Doubly Salient Machine for In-Wheel Direct Drive Applications. IEEE Transactions on Magnetics, 2014, 50, 1-5.	2.1	26
164	Pulse-Width-Modulation-Based Electromagnetic Interference Mitigation of Bidirectional Grid-Connected Converters for Electric Vehicles. IEEE Transactions on Smart Grid, 2017, 8, 2803-2812.	9.0	26
165	A Finite Elementâ€“Analytical Method for Electromagnetic Field Analysis of Electric Machines With Free Rotation. IEEE Transactions on Magnetics, 2006, 42, 3392-3394.	2.1	25
166	Quantitative Comparison of Double-Stator Permanent Magnet Vernier Machines With and Without HTS Bulks. IEEE Transactions on Applied Superconductivity, 2012, 22, 5202405-5202405.	1.7	25
167	A Hybrid-Excited Vernier Permanent Magnet Machine Using Homopolar Topology. IEEE Transactions on Magnetics, 2017, 53, 1-7.	2.1	25
168	Single-Source Multiple-Coil Homogeneous Induction Heating. IEEE Transactions on Magnetics, 2017, 53, 1-6.	2.1	25
169	Accurate Position Detection in Wireless Power Transfer Using Magnetoresistive Sensors for Implant Applications. IEEE Transactions on Magnetics, 2018, 54, 1-5.	2.1	25
170	Design of permanent magnet brushless motors with asymmetric air gap for electric vehicles. Journal of Applied Physics, 2006, 99, 08R322.	2.5	24
171	Design and Analysis of a HTS Vernier PM Machine. IEEE Transactions on Applied Superconductivity, 2010, 20, 1055-1059.	1.7	24
172	Design of electrical machines by the finite element method using distributed computing. Computers in Industry, 1991, 17, 367-374.	9.9	23
173	Switching characteristics and efficiency improvement with auxiliary resonant snubber based soft-switching inverters. , 0, , .		23
174	Design and Analysis of an Integrated Halbach-magnetic-geared Permanent-magnet Motor for Electric Vehicles. Journal of Asian Electric Vehicles, 2009, 7, 1213-1219.	0.4	23
175	Design and Analysis of a Novel Linear Transverse Flux Permanent Magnet Motor Using HTS Magnetic Shielding. IEEE Transactions on Applied Superconductivity, 2010, 20, 1106-1109.	1.7	23
176	An improved coaxial magnetic gear using flux focusing. , 2011, , .		23
177	Design and Analysis of a HTS Flux-Switching Machine for Wind Energy Conversion. IEEE Transactions on Applied Superconductivity, 2013, 23, 5000904-5000904.	1.7	23
178	Electromagnetic Design of a New Electrically Controlled Magnetic Variable-Speed Gearing Machine. Energies, 2014, 7, 1539-1554.	3.1	23
179	Hybrid Frequency Pacing for High-Order Transformed Wireless Power Transfer. IEEE Transactions on Power Electronics, 2021, 36, 1157-1170.	7.9	23
180	Modeling of electric vehicle chargers. , 0, , .		22

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