

David G Dorrell

List of Publications by Year in descending order

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318
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318
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318
times ranked

6339
citing authors

#	ARTICLE	IF	CITATIONS
1	Automotive Electric Propulsion Systems With Reduced or No Permanent Magnets: An Overview. IEEE Transactions on Industrial Electronics, 2014, 61, 5696-5711.	7.9	607
2	A review of supercapacitor modeling, estimation, and applications: A control/management perspective. Renewable and Sustainable Energy Reviews, 2018, 81, 1868-1878.	16.4	599
3	Analysis of airgap flux, current, and vibration signals as a function of the combination of static and dynamic airgap eccentricity in 3-phase induction motors. IEEE Transactions on Industry Applications, 1997, 33, 24-34.	4.9	405
4	State-of-health estimation for Li-ion batteries by combing the incremental capacity analysis method with grey relational analysis. Journal of Power Sources, 2019, 410-411, 106-114.	7.8	255
5	An Improved Direct Torque Control for Three-Level Inverter-Fed Induction Motor Sensorless Drive. IEEE Transactions on Power Electronics, 2012, 27, 1502-1513.	7.9	238
6	Multiobjective Optimal Sizing of Hybrid Energy Storage System for Electric Vehicles. IEEE Transactions on Vehicular Technology, 2018, 67, 1027-1035.	6.3	227
7	A Review of the Design Issues and Techniques for Radial-Flux Brushless Surface and Internal Rare-Earth Permanent-Magnet Motors. IEEE Transactions on Industrial Electronics, 2011, 58, 3741-3757.	7.9	162
8	Calculation and measurement of unbalanced magnetic pull in cage induction motors with eccentric rotors. Part 1: Analytical model. IET Electric Power Applications, 1996, 143, 193.	1.4	157
9	Model Predictive Control of Grid-Connected Inverters for PV Systems With Flexible Power Regulation and Switching Frequency Reduction. IEEE Transactions on Industry Applications, 2015, 51, 587-594.	4.9	152
10	Design and Analysis of Brushless Doubly Fed Reluctance Machines. IEEE Transactions on Industry Applications, 2013, 49, 50-58.	4.9	143
11	Development of a Magnetic Planetary Gearbox. IEEE Transactions on Magnetics, 2008, 44, 403-412.	2.1	139
12	Analysis and Design Techniques Applied to Hybrid Vehicle Drive Machines—Assessment of Alternative IPM and Induction Motor Topologies. IEEE Transactions on Industrial Electronics, 2012, 59, 3690-3699.	7.9	137
13	Predictive Direct Virtual Torque and Power Control of Doubly Fed Induction Generators for Fast and Smooth Grid Synchronization and Flexible Power Regulation. IEEE Transactions on Power Electronics, 2013, 28, 3182-3194.	7.9	137
14	Virtual Flux Droop Method—A New Control Strategy of Inverters in Microgrids. IEEE Transactions on Power Electronics, 2014, 29, 4704-4711.	7.9	136
15	A comparative study of equivalent circuit models of ultracapacitors for electric vehicles. Journal of Power Sources, 2015, 274, 899-906.	7.8	134
16	On-line current monitoring to diagnose airgap eccentricity in large three-phase induction motors-industrial case histories verify the predictions. IEEE Transactions on Energy Conversion, 1999, 14, 1372-1378.	5.2	123
17	Flux-linkage calculation in permanent-magnet motors using the frozen permeabilities method. IEEE Transactions on Magnetics, 2005, 41, 3946-3948.	2.1	123
18	Fractional-order modeling and State-of-Charge estimation for ultracapacitors. Journal of Power Sources, 2016, 314, 28-34.	7.8	119

#	ARTICLE	IF	CITATIONS
19	Unbalanced Magnetic Pull Due to Asymmetry and Low-Level Static Rotor Eccentricity in Fractional-Slot Brushless Permanent-Magnet Motors With Surface-Magnet and Consequent-Pole Rotors. IEEE Transactions on Magnetics, 2010, 46, 2675-2685.	2.1	115
20	Combined Thermal and Electromagnetic Analysis of Permanent-Magnet and Induction Machines to Aid Calculation. IEEE Transactions on Industrial Electronics, 2008, 55, 3566-3574.	7.9	109
21	Comparison of different motor design drives for hybrid electric vehicles. , 2010, , .		106
22	Multi-Objective Model-Predictive Control for High-Power Converters. IEEE Transactions on Energy Conversion, 2013, 28, 652-663.	5.2	105
23	Basic characteristics of a consequent-pole-type bearingless motor. IEEE Transactions on Magnetics, 2005, 41, 82-89.	2.1	103
24	Sources and Characteristics of Unbalanced Magnetic Pull in Three-Phase Cage Induction Motors With Axial-Varying Rotor Eccentricity. IEEE Transactions on Industry Applications, 2011, 47, 12-24.	4.9	100
25	Alternative Rotor Designs for High Performance Brushless Permanent Magnet Machines for Hybrid Electric Vehicles. IEEE Transactions on Magnetics, 2012, 48, 835-838.	2.1	100
26	Hybrid electrochemical energy storage systems: An overview for smart grid and electrified vehicle applications. Renewable and Sustainable Energy Reviews, 2021, 139, 110581.	16.4	97
27	Thermal runaway behavior during overcharge for large-format Lithium-ion batteries with different packaging patterns. Journal of Energy Storage, 2019, 25, 100811.	8.1	90
28	Predictive Direct Power Control of Doubly Fed Induction Generators Under Unbalanced Grid Voltage Conditions for Power Quality Improvement. IEEE Transactions on Sustainable Energy, 2015, 6, 943-950.	8.8	87
29	Online Parameter Identification of Ultracapacitor Models Using the Extended Kalman Filter. Energies, 2014, 7, 3204-3217.	3.1	82
30	Unbalanced Magnet Pull in Large Brushless Rare-Earth Permanent Magnet Motors With Rotor Eccentricity. IEEE Transactions on Magnetics, 2009, 45, 4586-4589.	2.1	79
31	Design and Analysis of a Claw Pole Permanent Magnet Motor With Molded Soft Magnetic Composite Core. IEEE Transactions on Magnetics, 2009, 45, 4582-4585.	2.1	75
32	Model predictive control of inverters for both islanded and grid-connected operations in renewable power generations. IET Renewable Power Generation, 2014, 8, 240-248.	3.1	74
33	Cognitive Radio Based Sensor Network in Smart Grid: Architectures, Applications and Communication Technologies. IEEE Access, 2017, 5, 19084-19098.	4.2	73
34	Proximity Losses in the Windings of High Speed Brushless Permanent Magnet AC Motors With Single Tooth Windings and Parallel Paths. IEEE Transactions on Magnetics, 2013, 49, 3913-3916.	2.1	72
35	A Data-Driven Method for Battery Charging Capacity Abnormality Diagnosis in Electric Vehicle Applications. IEEE Transactions on Transportation Electrification, 2022, 8, 990-999.	7.8	68
36	Calculation of UMP in induction motors with series or parallel winding connections. IEEE Transactions on Energy Conversion, 1994, 9, 304-310.	5.2	67

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37	Two-Level Surrogate-Assisted Differential Evolution Multi-Objective Optimization of Electric Machines Using 3-D FEA. IEEE Transactions on Magnetics, 2018, 54, 1-5.	2.1	65
38	Experimental impedance investigation of an ultracapacitor at different conditions for electric vehicle applications. Journal of Power Sources, 2015, 287, 129-138.	7.8	64
39	Automotive Electric Motors, Generators, and Actuator Drive Systems With Reduced or No Permanent Magnets and Innovative Design Concepts. IEEE Transactions on Industrial Electronics, 2014, 61, 5693-5695.	7.9	63
40	A New Control Method of Cascaded Brushless Doubly Fed Induction Generators Using Direct Power Control. IEEE Transactions on Energy Conversion, 2014, 29, 771-779.	5.2	61
41	Battery Thermal Runaway Fault Prognosis in Electric Vehicles Based on Abnormal Heat Generation and Deep Learning Algorithms. IEEE Transactions on Power Electronics, 2022, 37, 8513-8525.	7.9	60
42	Different Arrangements for Dual-Rotor Dual-Output Radial-Flux Motors. IEEE Transactions on Industry Applications, 2012, 48, 612-622.	4.9	57
43	A Vehicle Rollover Evaluation System Based on Enabling State and Parameter Estimation. IEEE Transactions on Industrial Informatics, 2021, 17, 4003-4013.	11.3	57
44	Are wound-rotor synchronous motors suitable for use in high efficiency torque-dense automotive drives?. , 2012, , .		56
45	Fast Analytical Determination of Aligned and Unaligned Flux Linkage in Switched Reluctance Motors Based on a Magnetic Circuit Model. IEEE Transactions on Magnetics, 2009, 45, 2935-2942.	2.1	55
46	Efficiency Improvements of Switched Reluctance Motors With High-Quality Iron Steel and Enhanced Conductor Slot Fill. IEEE Transactions on Energy Conversion, 2009, 24, 819-825.	5.2	53
47	Experimental behaviour of unbalanced magnetic pull in 3-phase induction motors with eccentric rotors and the relationship with tooth saturation. IEEE Transactions on Energy Conversion, 1999, 14, 304-309.	5.2	51
48	Development of a Wave Energy Converter Using a Two Chamber Oscillating Water Column. IEEE Transactions on Sustainable Energy, 2012, 3, 482-497.	8.8	51
49	Calculation of unbalanced magnetic pull in small cage induction motors with skewed rotors and dynamic rotor eccentricity. IEEE Transactions on Energy Conversion, 1996, 11, 483-488.	5.2	50
50	The use of finite element methods to improve techniques for the early detection of faults in 3-phase induction motors. IEEE Transactions on Energy Conversion, 1999, 14, 655-660.	5.2	50
51	Model predictive direct power control of doubly fed induction generators under unbalanced grid voltage conditions in wind energy applications. IET Renewable Power Generation, 2014, 8, 687-695.	3.1	49
52	Control and applications of direct matrix converters: A review. Chinese Journal of Electrical Engineering, 2018, 4, 18-27.	3.4	49
53	Braking/steering coordination control for in-wheel motor drive electric vehicles based on nonlinear model predictive control. Mechanism and Machine Theory, 2019, 142, 103586.	4.5	49
54	Chassis Coordinated Control for Full X-by-Wire Vehicles-A Review. Chinese Journal of Mechanical Engineering (English Edition), 2021, 34, .	3.7	48

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55	Inter-bar currents in induction machines. IEEE Transactions on Industry Applications, 2003, 39, 677-684.	4.9	46
56	Design and Analysis of Star-Δ Hybrid Windings for High-Voltage Induction Motors. IEEE Transactions on Industrial Electronics, 2011, 58, 3758-3767.	7.9	46
57	Design and Analysis of Brushless Doubly Fed Reluctance Machine for Renewable Energy Applications. IEEE Transactions on Magnetics, 2016, 52, 1-5.	2.1	45
58	Design and Operation of Interior Permanent-Magnet Motors With Two Axial Segments and High Rotor Saliency. IEEE Transactions on Magnetics, 2010, 46, 3664-3675.	2.1	43
59	CFD modelling of a small-scale fixed multi-chamber OWC device. Applied Ocean Research, 2019, 88, 37-47.	4.1	42
60	Damper Windings in Induction Machines for Reduction of Unbalanced Magnetic Pull and Bearing Wear. IEEE Transactions on Industry Applications, 2013, 49, 2206-2216.	4.9	41
61	Battery electric vehicle usage pattern analysis driven by massive real-world data. Energy, 2022, 250, 123837.	8.8	41
62	Design of Large-Power Surface-Mounted Permanent-Magnet Motors Using Postassembly Magnetization. IEEE Transactions on Industrial Electronics, 2010, 57, 3376-3384.	7.9	40
63	Improvements in Brushless Doubly Fed Reluctance Generators Using High-Flux-Density Steels and Selection of the Correct Pole Numbers. IEEE Transactions on Magnetics, 2011, 47, 4092-4095.	2.1	40
64	Field-oriented control based on hysteresis band current controller for a permanent magnet synchronous motor driven by a direct matrix converter. IET Power Electronics, 2018, 11, 1277-1285.	2.1	40
65	Post Assembly Magnetization Patterns in Rare-Earth Permanent-Magnet Motors. IEEE Transactions on Magnetics, 2007, 43, 2489-2491.	2.1	39
66	On the Possibilities of Using a Brushless Doubly-Fed Reluctance Generator in a 2 MW Wind Turbine. , 2008, , .		38
67	Thermal Analysis of Duplex Three-Phase Induction Motor Under Fault Operating Conditions. IEEE Transactions on Industry Applications, 2013, 49, 1523-1530.	4.9	37
68	Effects of rotor eccentricity on torque in switched reluctance Machines. IEEE Transactions on Magnetics, 2005, 41, 3961-3963.	2.1	36
69	Assessment of Losses in a Brushless Doubly-Fed Reluctance Machine. IEEE Transactions on Magnetics, 2006, 42, 3425-3427.	2.1	36
70	Magnetic Circuit Modeling of Brushless Doubly-Fed Machines With Induction and Reluctance Rotors. IEEE Transactions on Magnetics, 2013, 49, 2359-2362.	2.1	36
71	A Vibration-Based Condition Monitoring System for Switched Reluctance Machine Rotor Eccentricity Detection. IEEE Transactions on Magnetics, 2008, 44, 2204-2214.	2.1	35
72	Odd Stator Slot Numbers in Brushless DC Machines—An Aid to Cogging Torque Reduction. IEEE Transactions on Magnetics, 2011, 47, 3012-3015.	2.1	35

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73	Post-Assembly Magnetization of Rare-Earth Fractional-Slot Surface Permanent-Magnet Machines Using a Two-Shot Method. IEEE Transactions on Industry Applications, 2011, 47, 2478-2486.	4.9	34
74	An application of the Fast Fourier Transform to the short-term prediction of sea wave behaviour. Renewable Energy, 2011, 36, 1685-1692.	8.9	34
75	Skin effect and proximity losses in high speed brushless permanent magnet motors. , 2013, , .		34
76	In-depth study of direct power control strategies for power converters. IET Power Electronics, 2014, 7, 1810-1820.	2.1	34
77	Detection of Inter-Turn Stator Faults in Induction Motors Using Short-Term Averaging of Forward and Backward Rotating Stator Current Phasors for Fast Prognostics. IEEE Transactions on Magnetics, 2017, 53, 1-7.	2.1	34
78	A Multisliced Finite-Element Model for Induction Machines Incorporating Interbar Current. IEEE Transactions on Industry Applications, 2009, 45, 131-141.	4.9	33
79	Predictive Voltage Control of Direct Matrix Converters With Improved Output Voltage for Renewable Distributed Generation. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 296-308.	5.4	33
80	Development of a Four-Axis Actively Controlled Consequent-Pole-Type Bearingless Motor. IEEE Transactions on Industry Applications, 2009, 45, 1378-1386.	4.9	32
81	Dual Quasi-Halbach Linear Tubular Actuator With Coreless Moving-Coil for Semiactive and Active Suspension. IEEE Transactions on Industrial Electronics, 2018, 65, 9873-9883.	7.9	32
82	Performance Improvement in High-Performance Brushless Rare-Earth Magnet Motors for Hybrid Vehicles by Use of High Flux-Density Steel. IEEE Transactions on Magnetics, 2011, 47, 3016-3019.	2.1	31
83	A Review of the Monitoring and Damping Unbalanced Magnetic Pull in Induction Machines Due to Rotor Eccentricity. IEEE Transactions on Industry Applications, 2019, 55, 2569-2580.	4.9	31
84	Brushless doubly-fed reluctance machine rotor design. , 2012, , .		29
85	Investigation on End Winding Inductance in Motor Stator Windings. IEEE Transactions on Magnetics, 2007, 43, 2513-2515.	2.1	28
86	Measurement and Calculation of Unbalanced Magnetic Pull in Wound Rotor Induction Machine. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	28
87	Design and Analyses of a Coreless-Stator-Type Bearingless Motor/Generator for Clean Energy Generation and Storage Systems. IEEE Transactions on Magnetics, 2006, 42, 3461-3463.	2.1	27
88	Analysis and Effects of Inter-Bar Current and Skew on a Long Skewed-Rotor Induction Motor for Pump Applications. IEEE Transactions on Magnetics, 2007, 43, 2534-2536.	2.1	27
89	Saturation and Ducting Effects in a Brushless Doubly-Fed Reluctance Machine. IEEE Transactions on Magnetics, 2013, 49, 3933-3936.	2.1	27
90	Study of the thermal aspects in brushless permanent magnet machines performance. , 2013, , .		27

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91	Design Aspects of a Reluctance-Based Magnetic Lead Screw. IEEE Transactions on Magnetics, 2019, 55, 1-6.	2.1	26
92	Optimization of Stator Design in a Consequent-Pole Type Bearingless Motor Considering Magnetic Suspension Characteristics. IEEE Transactions on Magnetics, 2006, 42, 3422-3424.	2.1	25
93	A Multichamber Oscillating Water Column Using Cascaded Savonius Turbines. IEEE Transactions on Industry Applications, 2010, 46, 2372-2380.	4.9	25
94	A Review of the Methods for Improving the Efficiency of Drive Motors to Meet IE4 Efficiency Standards. Journal of Power Electronics, 2014, 14, 842-851.	1.5	25
95	A Small Segmented Oscillating Water Column Using a Savonius Rotor Turbine. IEEE Transactions on Industry Applications, 2010, 46, 2080-2088.	4.9	24
96	Loss Analysis of Circular Wireless EV Charging Coupler. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	24
97	Detection of Rotor Eccentricity in Wound Rotor Induction Machines Using Pole-Specific Search Coils. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	24
98	Calculation of Radial Forces in Cage Induction Motors at Start – The Effect of Rotor Differential. IEEE Transactions on Magnetics, 2010, 46, 3029-3032.	2.1	23
99	The Detection and Suppression of Unbalanced Magnetic Pull in Wound Rotor Induction Motors Using Pole-Specific Search Coils and Auxiliary Windings. IEEE Transactions on Industry Applications, 2017, 53, 2066-2076.	4.9	23
100	Methods to reduce the starting current of an induction motor. , 2017, , .		23
101	Multi-chamber oscillating water column wave energy converters and air turbines: A review. International Journal of Energy Research, 2019, 43, 681-696.	4.5	23
102	Heuristic Optimization of Virtual Inertia Control in Grid-Connected Wind Energy Conversion Systems for Frequency Support in a Restructured Environment. Energies, 2020, 13, 564.	3.1	23
103	Design principles for brushless doubly fed reluctance machines. , 2011, , .		22
104	Residual Capacity Estimation for Ultracapacitors in Electric Vehicles Using Artificial Neural Network. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 3899-3904.	0.4	22
105	Analysis and Performance Assessment of Six-Pulse Inverter-Fed Three-Phase and Six-Phase Induction Machines. IEEE Transactions on Industry Applications, 2006, 42, 1487-1495.	4.9	21
106	Unbalanced Magnetic Pull in Fractional-Slot Brushless PM Motors. , 2008, , .		21
107	Winding Changeover Permanent-Magnet Generators for Renewable Energy Applications. IEEE Transactions on Magnetics, 2012, 48, 4168-4171.	2.1	21
108	Influence of Parallel Paths on Current-Regulated Sine-Wave Interior-Permanent-Magnet Machines With Rotor Eccentricity. IEEE Transactions on Industry Applications, 2012, 48, 642-652.	4.9	21

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109	Establishing the Power Factor Limitations for Synchronous Reluctance Machines. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	21
110	The Development of an Indexing Method for the Comparison of Unbalanced Magnetic Pull in Electrical Machines. IEEE Transactions on Industry Applications, 2016, 52, 145-153.	4.9	21
111	Leveraging smart meter data for economic optimization of residential photovoltaics under existing tariff structures and incentive schemes. Applied Energy, 2017, 201, 158-173.	10.1	21
112	Optimal Design of a Switched Reluctance Motor With Magnetically Disconnected Rotor Modules Using a Design of Experiments Differential Evolution FEA-Based Method. IEEE Transactions on Magnetics, 2018, 54, 1-5.	2.1	21
113	Eddy Current Effects in a Switched Reluctance Motor. IEEE Transactions on Magnetics, 2006, 42, 3437-3439.	2.1	20
114	Issues with the design of brushless doubly-fed reluctance machines: Unbalanced magnetic pull, skew and iron losses. , 2011, , .		20
115	An Analytical Method Combining Equivalent Circuit and Magnetic Circuit for BDFRG. IEEE Transactions on Magnetics, 2014, 50, 1-5.	2.1	20
116	Connected vehicles - Advancements in vehicular technologies and informatics. IEEE Transactions on Industrial Electronics, 2015, 62, 7824-7826.	7.9	20
117	Modified Relative Entropy-Based Lithium-Ion Battery Pack Online Short-Circuit Detection for Electric Vehicle. IEEE Transactions on Transportation Electrification, 2022, 8, 1710-1723.	7.8	20
118	Vector control of unsymmetrical two-phase induction machines. , 0, , .		19
119	Review of axial flux induction motor for automotive applications. , 2017, , .		19
120	Brushless Doubly Fed Reluctance Machine Testing for Parameter Determination. IEEE Transactions on Industry Applications, 2019, 55, 2611-2619.	4.9	19
121	Assessing the core losses in switched reluctance machines. IEEE Transactions on Magnetics, 2005, 41, 3907-3909.	2.1	18
122	Design and analysis of Brushless Doubly Fed Reluctance Machines. , 2011, , .		18
123	Unbalanced Magnetic Pull in Cage Induction Machines for Fixed-Speed Renewable Energy Generators. IEEE Transactions on Magnetics, 2011, 47, 4096-4099.	2.1	18
124	Non-invasive fault diagnosis for switched-reluctance machines with incorrect winding turns, inter-turn winding faults and eccentric rotors. , 0, , .		17
125	Modern electrical machine analysis and design techniques applied to hybrid vehicle drive machines. , 2010, , .		17
126	Speed sensorless stator flux oriented control of three-level inverter-fed induction motor drive based on fuzzy logic and sliding mode control. , 2010, , .		17

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127	Genetic Algorithm based optimal component sizing for an electric vehicle. , 2013, , .		17
128	KÄppen-Geiger climate classification adjustment of the BRL diffuse irradiation model for Australian locations. Renewable Energy, 2020, 147, 2453-2469.	8.9	17
129	Design of Brushless Permanent Magnet Motors - A Combined Electromagnetic and Thermal Approach to High Performance Specification. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	16
130	Performance Improvement of an External-Rotor Split-Phase Induction Motor for Low-Cost Drive Applications Using External Rotor Can. IEEE Transactions on Magnetics, 2007, 43, 2549-2551.	2.1	16
131	A Practical Approach for the Global Optimization of Electromagnetic Design of 3-Phase Core-Type Distribution Transformer Allowing for Capitalization of Losses. IEEE Transactions on Magnetics, 2013, 49, 2117-2120.	2.1	16
132	A Novel Approach to Investigate the Quantitative Impact of Harmonic Currents on Winding Losses and Short Circuit Forces in a Furnace Transformer. IEEE Transactions on Magnetics, 2013, 49, 2025-2028.	2.1	16
133	The challenges of meeting IE4 efficiency standards for induction and other machines. , 2014, , .		16
134	A novel sliding mode controller for DC-DC boost converters under input/load variations. , 2015, , .		16
135	A multi-port converter based renewable energy system for residential consumers of smart grid. , 2015, , .		16
136	Copper Loss Analysis of EV Charging Coupler. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	16
137	Design Requirements for Brushless Permanent Magnet Generators for Use in Small Renewable Energy Systems. , 2007, , .		15
138	A Study of the Engineering Calculations for Iron Losses in 3-phase AC Motor Models. , 2007, , .		15
139	Modeling and Effects of In Situ Magnetization of Isotropic Ferrite Magnet Motors. IEEE Transactions on Industry Applications, 2014, 50, 364-374.	4.9	15
140	Sequential Model Predictive Control of Three-Phase Direct Matrix Converter. Energies, 2019, 12, 214.	3.1	15
141	Robust State Estimation Method for Adaptive Load Frequency Control of Interconnected Power System in a Restructured Environment. IEEE Systems Journal, 2021, 15, 5046-5056.	4.6	15
142	Cogging torque reduction in axial flux machines for small wind turbines. , 2009, , .		14
143	Comparison of High Pole Number Ultra-Low Speed Generator Designs Using Slotted and Air-Gap Windings. IEEE Transactions on Magnetics, 2012, 48, 3120-3123.	2.1	14
144	Analysis of unbalanced magnetic pull in wound rotor induction machines using finite element analysis - Transient, motoring and generating modes. , 2013, , .		14

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145	A Study of the Influence of Quasi-Halbach Arrays on a Torus Machine. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	14
146	Torque Calculation in Finite Element Solutions of Electrical Machines by Consideration of Stored Energy. IEEE Transactions on Magnetics, 2006, 42, 3431-3433.	2.1	13
147	Design Requirements for Doubly-Fed Reluctance Generators. , 2007, , .		13
148	Identification of Three-Phase IPM Machine Parameters Using Torque Tests. IEEE Transactions on Industry Applications, 2017, 53, 1883-1891.	4.9	13
149	Predictive voltage control of direct matrix converter with reduced number of sensors for the renewable energy and microgrid applications. , 2017, , .		13
150	Decoupling Controller Design and Controllable Regions Analysis for the Space Vector Modulated Matrix Converter-Unified Power Flow Controller in Transmission Systems. Electric Power Components and Systems, 2018, 46, 1-14.	1.8	13
151	Electromagnetic Considerations in the Design of Doubly-Fed Reluctance Generators for use in Wind Turbines. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	12
152	Review of wireless charging coupler for electric vehicles. , 2013, , .		12
153	Performance analysis of correlated multi-channels in cognitive radio sensor network based smart grid. , 2017, , .		12
154	Hysteresis band current controller based field-oriented control for an induction motor driven by a direct matrix converter. , 2017, , .		12
155	Sequential Model Predictive Control of Direct Matrix Converter without Weighting Factors. , 2018, , .		11
156	Single and double layer windings in fractional slot-per-pole PM machines - effects on motor performance. , 2008, , .		10
157	Performance measurements of communication access technologies and improved cognitive radio model for smart grid communication. Transactions on Emerging Telecommunications Technologies, 2019, 30, e3653.	3.9	10
158	Frequency Control of Modern Multi-Area Power Systems Using Fuzzy Logic Controller. , 2019, , .		10
159	Impact Assessment and Mitigation of Cyber Attacks on Frequency Stability of Isolated Microgrid Using Virtual Inertia Control. , 2020, , .		10
160	Calculation and effects of end-ring impedance in cage induction motors. IEEE Transactions on Magnetics, 2005, 41, 1176-1183.	2.1	9
161	A small segmented oscillating water column using a savonius rotor turbine. , 2008, , .		9
162	Drive system analysis of a novel plug-in hybrid vehicle. , 2009, , .		9

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163	Design and comparison of 11 kV multilevel voltage source converters for local grid based renewable energy systems. , 2011, , .		9
164	Model-predictive direct power control of AC/DC converters with one step delay compensation. , 2012, , .		9
165	Evaluation of Permanent Magnet Generator Manufactured Using Postassembly Magnetization. IEEE Transactions on Magnetics, 2013, 49, 4084-4087.	2.1	9
166	Maximizing investment value of small-scale PV in a smart grid environment. , 2016, , .		9
167	Modelling of the multi-chamber oscillating water column in regular waves at model scale. Energy Procedia, 2017, 136, 316-322.	1.8	9
168	Analytical modelling of a consequent-pole bearingless permanent magnet motor. , 0, , .		8
169	A Multi-Sliced Finite Element Model for Induction Machines Incorporating Inter-bar Current. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2006, , .	0.0	8
170	Modeling Split-Phase Induction Motors With Center-Tapped Windings and Asynchronous Torque Dips. IEEE Transactions on Industry Applications, 2009, 45, 168-177.	4.9	8
171	A comparative study of direct power control of AC/DC converters for renewable energy generation. , 2011, , .		8
172	Inverter-fed induction machines in traction applications — Extraction of equivalent circuit parameters from synchronous speed and locked rotor tests. , 2014, , .		8
173	Design and Operation of Very Slow Speed Generators for a Bristol Cylinder Sea Wave Generating Device. IEEE Transactions on Industry Applications, 2014, 50, 2749-2759.	4.9	8
174	Inductive Charging Coupler With Assistive Coils. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	8
175	Driving Event Recognition of Battery Electric Taxi Based on Big Data Analysis. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 9200-9209.	8.0	8
176	Vulnerability Analysis of False Data Injection Attacks on the Frequency Stability of Isolated Microgrids. , 2021, , .		8
177	A Comparative Assessment of Conventional and Artificial Neural Networks Methods for Electricity Outage Forecasting. Energies, 2022, 15, 511.	3.1	8
178	Effect of mutual coupling on torque production in switched reluctance motors. Journal of Applied Physics, 2006, 99, 08R304.	2.5	7
179	Sensorless Control of Brushless Doubly-Fed Reluctance Machines using an Angular Velocity Observer. , 2007, , .		7
180	Sources and characteristics of unbalanced magnetic pull in 3-phase cage induction motors with axial-varying rotor eccentricity. , 2009, , .		7

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181	Thermal analysis of duplex 3-phase induction motor under fault operating conditions. , 2012, , .		7
182	Radial forces and vibrations in permanent magnet and induction machines. , 2012, , .		7
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