

Wenlong Li

List of Publications by Year in descending order

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115
papers

4,533
citations

172386

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all docs

115
docs citations

115
times ranked

2284
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.	5.2	1,186
2	An overview of power electronics in electric vehicles. IEEE Transactions on Industrial Electronics, 1997, 44, 3-13.	5.2	353
3	Design and analysis of a new doubly salient permanent magnet motor. IEEE Transactions on Magnetics, 2001, 37, 3012-3020.	1.2	185
4	Nonlinear varying-network magnetic circuit analysis for doubly salient permanent-magnet motors. IEEE Transactions on Magnetics, 2000, 36, 339-348.	1.2	149
5	Acoustic noise radiated by PWM-controlled induction machine drives. IEEE Transactions on Industrial Electronics, 2000, 47, 880-889.	5.2	140
6	Static characteristics of a new doubly salient permanent magnet motor. IEEE Transactions on Energy Conversion, 2001, 16, 20-25.	3.7	136
7	A new three-phase doubly salient permanent magnet machine for wind power generation. IEEE Transactions on Industry Applications, 2006, 42, 53-60.	3.3	126
8	Development of a New Brushless Doubly Fed Doubly Salient Machine for Wind Power Generation. IEEE Transactions on Magnetics, 2006, 42, 3455-3457.	1.2	106
9	Adaptive neuro-fuzzy modeling of battery residual capacity for electric vehicles. IEEE Transactions on Industrial Electronics, 2002, 49, 677-684.	5.2	99
10	Nonlinear magnetic circuit analysis for a novel stator doubly fed doubly salient machine. IEEE Transactions on Magnetics, 2002, 38, 2382-2384.	1.2	92
11	Analysis of chaos in current-mode-controlled DC drive systems. IEEE Transactions on Industrial Electronics, 2000, 47, 67-76.	5.2	85
12	Control and operation of a new 8/6-pole doubly salient permanent-magnet motor drive. IEEE Transactions on Industry Applications, 2003, 39, 1363-1371.	3.3	81
13	Overview of wireless power transfer for electric vehicle charging., 2013, , .		80
14	A novel stator doubly fed doubly salient permanent magnet brushless machine. IEEE Transactions on Magnetics, 2003, 39, 3001-3003.	1.2	73
15	Neural Network-Based Residual Capacity Indicator for Nickel-Metal Hydride Batteries in Electric Vehicles. IEEE Transactions on Vehicular Technology, 2005, 54, 1705-1712.	3.9	70
16	Spectral analysis of a new six-phase pole-changing induction motor drive for electric vehicles. IEEE Transactions on Industrial Electronics, 2003, 50, 123-131.	5.2	67
17	A novel sliding-mode observer for indirect position sensing of switched reluctance motor drives. IEEE Transactions on Industrial Electronics, 1999, 46, 390-397.	5.2	65
18	Hopf Bifurcation and Chaos in Synchronous Reluctance Motor Drives. IEEE Transactions on Energy Conversion, 2004, 19, 296-302.	3.7	64

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19	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
20	Design and Control of a PM Brushless Hybrid Generator for Wind Power Application. IEEE Transactions on Magnetics, 2006, 42, 3497-3499.	1.2	63
21	Open-Phase Fault Modeling and Optimized Fault-Tolerant Control of Dual Three-Phase Permanent Magnet Synchronous Machines. IEEE Transactions on Power Electronics, 2019, 34, 11116-11127.	5.4	62
22	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.	1.2	61
23	An advanced permanent magnet motor drive system for battery-powered electric vehicles. IEEE Transactions on Vehicular Technology, 1996, 45, 180-188.	3.9	60
24	Design of permanent magnets to avoid chaos in pm synchronous machines. IEEE Transactions on Magnetics, 2003, 39, 2995-2997.	1.2	56
25	Current Injection-Based Multi-parameter Estimation for Dual Three-Phase IPMSM Considering VSI Nonlinearity. IEEE Transactions on Transportation Electrification, 2019, 5, 405-415.	5.3	54
26	Design and Analysis of a Stator-Doubly-Fed Doubly-Salient Permanent-Magnet Machine for Automotive Engines. IEEE Transactions on Magnetics, 2006, 42, 3470-3472.	1.2	52
27	Subharmonics and chaos in switched reluctance motor drives. IEEE Transactions on Energy Conversion, 2002, 17, 73-78.	3.7	45
28	A new DC micro-grid system using renewable energy and electric vehicles for smart energy delivery. , 2010, , .		35
29	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
30	Wireless DC Motor Drives with Selectability and Controllability. Energies, 2017, 10, 49.	1.6	30
31	Wireless Power and Drive Transfer for Piping Network. IEEE Transactions on Industrial Electronics, 2022, 69, 2345-2356.	5.2	30
32	Dual Reference Frame Based Current Harmonic Minimization for Dual Three-Phase PMSM Considering Inverter Voltage Limit. IEEE Transactions on Power Electronics, 2021, 36, 8055-8066.	5.4	26
33	A Finite Element Analytical Method for Electromagnetic Field Analysis of Electric Machines With Free Rotation. IEEE Transactions on Magnetics, 2006, 42, 3392-3394.	1.2	25
34	A Hybrid-Excited Vernier Permanent Magnet Machine Using Homopolar Topology. IEEE Transactions on Magnetics, 2017, 53, 1-7.	1.2	25
35	Efficient Permanent Magnet Temperature Modeling and Estimation for Dual Three-Phase PMSM Considering Inverter Nonlinearity. IEEE Transactions on Power Electronics, 2020, 35, 7328-7340.	5.4	25
36	Computation-Efficient Solution to Open-Phase Fault Tolerant Control of Dual Three-Phase Interior PMSMs With Maximized Torque and Minimized Ripple. IEEE Transactions on Power Electronics, 2021, 36, 4488-4499.	5.4	25

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37	Bidirectional soft-switching converter-fed DC motor drives. , 0, , .		21
38	Wireless Energy-On-Demand Using Magnetic Quasi-Resonant Coupling. IEEE Transactions on Power Electronics, 2020, 35, 9057-9069.	5.4	21
39	A Superconducting Vernier Motor for Electric Ship Propulsion. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-6.	1.1	19
40	Multireference Frame Based Open-Phase Fault Modeling and Control for Asymmetrical Six-Phase Interior Permanent Magnet Motors. IEEE Transactions on Power Electronics, 2021, 36, 11712-11725.	5.4	19
41	Output-Controllable Efficiency-Optimized Wireless Power Transfer Using Hybrid Modulation. IEEE Transactions on Industrial Electronics, 2022, 69, 4627-4636.	5.2	19
42	Wireless Energy Trading in Traffic Internet. IEEE Transactions on Power Electronics, 2022, 37, 4831-4841.	5.4	19
43	Design and analysis of a new permanent magnet brushless DC machine. IEEE Transactions on Magnetics, 2000, 36, 3353-3356.	1.2	18
44	Design and analysis of a new multiphase polygonal-winding permanent-magnet brushless DC machine. IEEE Transactions on Magnetics, 2002, 38, 3258-3260.	1.2	18
45	Design and analysis of a new parallel-hybrid-excited linear vernier machine for oceanic wave power generation. Applied Energy, 2017, 208, 878-888.	5.1	18
46	All-utensil domestic induction heating system. Energy Conversion and Management, 2019, 195, 1035-1043.	4.4	18
47	Demagnetization Analysis of Interior Permanent Magnet Machines Under Integrated Charging Operation. IEEE Transactions on Industry Applications, 2019, 55, 5204-5213.	3.3	17
48	An Integrated Wireless Motor System Using Laminated Magnetic Coupler and Commutative-Resonant Control. IEEE Transactions on Industrial Electronics, 2022, 69, 4342-4352.	5.2	17
49	Current Injection-Based Simultaneous Stator Winding and PM Temperature Estimation for Dual Three-Phase PMSMs. IEEE Transactions on Industry Applications, 2021, 57, 4933-4945.	3.3	17
50	A New High-Temperature Superconducting Vernier Permanent-Magnet Machine for Wind Turbines. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.1	15
51	Application of chaotic-motion motors to industrial mixing processes. , 0, , .		14
52	A Novel Quasi-3D Analytical Model for Axial Flux Motors Considering Magnetic Saturation. IEEE Transactions on Energy Conversion, 2022, 37, 1358-1368.	3.7	14
53	Maximum Power Tracking for Magnetic Field Editing-Based Omnidirectional Wireless Power Transfer. IEEE Transactions on Power Electronics, 2022, 37, 12901-12912.	5.4	14
54	Design of Permanent Magnets to Avoid Chaos in Doubly Salient PM Machines. IEEE Transactions on Magnetics, 2004, 40, 3048-3050.	1.2	13

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55	Design and Analysis of Wireless Resolver for Wireless Switched Reluctance Motors. IEEE Transactions on Industrial Electronics, 2023, 70, 2221-2230.	5.2	13
56	Machine Parameter-Independent Maximum Torque Per Ampere Control for Dual Three-Phase PMSMs. IEEE Transactions on Transportation Electrification, 2019, 5, 1430-1440.	5.3	12
57	Doubly Salient Dual-PM Linear Machines for Regenerative Shock Absorbers. IEEE Transactions on Magnetics, 2017, 53, 1-5.	1.2	11
58	Dual DC current injection-based stator winding temperature tracking for dual three-phase permanent magnet synchronous machine using Kalman filter. IET Electric Power Applications, 2019, 13, 1726-1733.	1.1	11
59	Extended Kalman Filter Based Inductance Estimation for Dual Three-Phase Permanent Magnet Synchronous Motors Under the Single Open-Phase Fault. IEEE Transactions on Energy Conversion, 2022, 37, 1134-1144.	3.7	11
60	A double-stator permanent magnet brushless machine system for electric variable transmission in hybrid electric vehicles. , 2010, , .		10
61	A new modular flux-switching permanent-magnet machine using fault-tolerant teeth. , 2010, , .		9
62	Review of recent progresses on gallium nitride transistor in power conversion application. International Journal of Sustainable Energy, 2020, 39, 88-100.	1.3	9
63	Structural Analysis of Single-Sided Axial-Flux Permanent Magnet Machines With Different Magnetic Materials. IEEE Transactions on Magnetics, 2021, 57, 1-5.	1.2	9
64	Parameter identification of nonlinear structural systems through frequency response sensitivity analysis. Nonlinear Dynamics, 2021, 104, 3975.	2.7	9
65	A new zero-voltage-transition converter for switched reluctance motor drives. , 0, , .		8
66	A Permanent-magnet double-stator integrated-starter-generator for hybrid electric vehicles. , 2008, , .		8
67	Design and Analysis of Electromagnetic Gears With Variable Gear Ratios. IEEE Transactions on Magnetics, 2017, 53, 1-6.	1.2	8
68	A Five-Phase Doubly Fed Doubly Salient HTS Linear Motor for Vertical Transportation. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.1	8
69	A Phase-Decoupled Flux-Reversal Linear Generator for Low-Speed Oscillatory Energy Conversion Using Impedance Matching Strategy. IEEE Transactions on Industrial Electronics, 2018, 65, 7590-7599.	5.2	8
70	Microstepping control of ultrasonic stepping motors. IEEE Transactions on Industry Applications, 2006, 42, 436-442.	3.3	7
71	Application of chaotic modulation to ac motors for harmonic suppression. , 2006, , .		7
72	An optimal solar-thermoelectric hybrid energy system for hybrid electric vehicles. , 2008, , .		7

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73	A Superconducting Linear Variable Reluctance Machine for Urban Transportation Systems. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.1	7
74	Wireless Power and Drive Transfer Using Orthogonal Bipolar Couplers and Separately Excited Modulation. IEEE Transactions on Industrial Electronics, 2022, 69, 3492-3502.	5.2	7
75	Soft-switching vector control for resonant snubber based inverters. , 0, , .		6
76	A new design method and half-step operation for ultrasonic stepping motors. IEEE Transactions on Industry Applications, 2003, 39, 953-960.	3.3	6
77	Genetic Algorithm Based Cost-emission Optimization of Unit Commitment Integrating with Gridable Vehicles. Journal of Asian Electric Vehicles, 2012, 10, 1567-1573.	0.4	6
78	Dead-beat direct torque and flux control based on sliding-mode stator flux observer for PMSM in electric vehicles. , 2015, , .		6
79	Investigation of Phase Angle Displacements in Six-Phase PMSM with Concentrated Windings for Reduced MMF Harmonics. , 2018, , .		6
80	Design and Analysis of a Magnetless Linear Variable Reluctance Motor With Modular Mover Units for Electric Propulsion. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-5.	1.1	6
81	A novel two-quadrant zero-voltage transition converter for DC motor drives. , 0, , .		5
82	Development of doubly salient permanent magnet motor flywheel energy storage for building integrated photovoltaic system. , 0, , .		5
83	An Improved Method for Discriminating ECG Signals using Typical Nonlinear Dynamic Parameters and Recurrence Quantification Analysis in Cardiac Disease Therapy. , 2005, 2005, 2459-62.		5
84	A New Linear Vernier Permanent-Magnet Machine Using High-Temperature Superconducting DC Field Excitation. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.1	5
85	Quantitative Comparison of Wireless Power Transfer Using HTS and Copper Coils. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-6.	1.1	5
86	Novel Machine Parameter Estimation Scheme Toward Accurate Maximum Torque Production for Dual Three-Phase PMSMs. IEEE Transactions on Transportation Electrification, 2021, 7, 2715-2727.	5.3	5
87	Open-Phase Fault Modeling for Dual Three-Phase PMSM Using Vector Space Decomposition and Negative Sequence Components. IEEE Transactions on Magnetics, 2022, 58, 1-6.	1.2	5
88	Long-Range Wireless Power Drive Using Magnetic Extender. IEEE Transactions on Transportation Electrification, 2023, 9, 1897-1909.	5.3	5
89	A novel stator doubly fed doubly salient permanent magnet brushless machine. , 0, , .		4
90	SLAM: Depth image information for mapping and inertial navigation system for localization. , 2016, , .		4

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91	Design and Analysis of Demand-Customized Selective Wireless Power Transfer System. IEEE Transactions on Industrial Electronics, 2022, 69, 13451-13461.	5.2	4
92	Design and control of a new ultrasonic stepping motor. , 0, , .		3
93	A short cylinder ultrasonic motor with novel excitation mode. , 0, , .		3
94	Chaoization of a Single-Phase Induction Motor for Washing Machines. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2006, , .	0.0	3
95	Noise and Vibration Prediction of a Six-Phase IPMSM in a Single Open-Phase Failure Under a Negative Sequence Current Compensated Fault Tolerant Control Mode. IEEE Transactions on Magnetics, 2022, 58, 1-6.	1.2	3
96	Investigation of on-Line Parameter Estimation for Interior PMSMs Considering Current Injection and Machine Operating Conditions. , 2018, , .		2
97	Current Injection-based Simultaneous Stator Winding and PM Temperature Estimation for Dual Three-phase PMSMs. , 2019, , .		2
98	Improvement of Electromagnetic Force and Acceleration in an Asymmetrical Star-Delta Winding IPMSM through Stator and Rotor Geometrical Modifications. , 2021, , .		2
99	Decoupled Estimation Scheme for PMSMs Toward Accurate Inductance Modeling. IEEE Transactions on Magnetics, 2022, 58, 1-5.	1.2	2
100	Optimal-efficiency control for constant-power operation of phase-decoupling permanent-magnet brushless motor drives. , 0, , .		1
101	Static characteristics of a new doubly salient permanent magnet motor. , 0, , .		1
102	Neuro-fuzzy dual-mode control of travelling-wave ultrasonic motors. , 0, , .		1
103	Subharmonics and chaos in switched reluctance motor drives. , 0, , .		1
104	Design of permanent magnets to avoid chaos in PM synchronous machines. , 0, , .		1
105	Micro-stepping control of ultrasonic stepping motors. , 0, , .		1
106	Design of permanent magnets to chaoize PM synchronous motors for industrial mixers. , 2005, , .		1
107	Scalar control of a new phase-decoupling permanent magnet synchronous motor for servo application. , 0, , .		1
108	Application of Chaotic Motion to Industrial Compactors. , 2005, , .		1

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109	Destabilization control of a chaotic motor for industrial mixers. , 0, , .		1
110	Nonlinear modeling and spectral analysis of Cuk converters. , 0, , .		0
111	Advanced conduction angle control of permanent magnet brushless motor drives. , 0, , .		0
112	Control and operation of a new 8/6-pole split-winding doubly salient permanent magnet motor drive. , 0, , .		0
113	Chaoization of switched reluctance motor drives. , 2005, , .		0
114	Design of permanent magnets to guarantee frequency-changing startup for PM synchronous machines. , 2005, , .		0
115	Optimal design of a double-stator permanent magnet brushless machine with series magnetic circuit. , 2010, , .		0