

Qinfen Lu

List of Publications by Year in descending order

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109
papers

1,218
citations

471509

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109
all docs

109
docs citations

109
times ranked

878
citing authors

#	ARTICLE	IF	CITATIONS
1	A Single Sided Matrix Converter Drive for a Brushless DC Motor in Aerospace Applications. IEEE Transactions on Industrial Electronics, 2012, 59, 3542-3552.	7.9	101
2	Design of a Five-Phase Brushless DC Motor for a Safety Critical Aerospace Application. IEEE Transactions on Industrial Electronics, 2012, 59, 3532-3541.	7.9	100
3	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
4	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
5	Analysis of a Novel Double-Sided Yokeless Multitooth Linear Switched-Flux PM Motor. IEEE Transactions on Industrial Electronics, 2018, 65, 1837-1845.	7.9	59
6	Thrust Ripple of a Permanent Magnet LSM With Step Skewed Magnets. IEEE Transactions on Magnetics, 2012, 48, 4666-4669.	2.1	38
7	Analytical Model of Permanent Magnet Linear Synchronous Machines Considering End Effect and Slotting Effect. IEEE Transactions on Energy Conversion, 2020, 35, 139-148.	5.2	38
8	Investigation of Novel Partitioned-Primary Hybrid-Excited Flux-Switching Linear Machines. IEEE Transactions on Industrial Electronics, 2018, 65, 9804-9813.	7.9	32
9	Superposition Method for Cogging Torque Prediction in Permanent Magnet Machines With Rotor Eccentricity. IEEE Transactions on Magnetics, 2016, 52, 1-10.	2.1	31
10	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
11	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
12	Thrust Force of Novel PM Transverse Flux Linear Oscillating Actuators With Moving Magnet. IEEE Transactions on Magnetics, 2011, 47, 4211-4214.	2.1	23
13	A Novel Transverse-Flux Moving-Magnet Linear Oscillatory Actuator. IEEE Transactions on Magnetics, 2012, 48, 1856-1862.	2.1	23
14	Design and Performance Investigation of Novel Linear Switched Flux PM Machines. IEEE Transactions on Industry Applications, 2017, 53, 4590-4602.	4.9	20
15	Investigation of a Partitioned-Primary Hybrid-Excited Flux-Switching Linear Machine With Dual-PM. IEEE Transactions on Industry Applications, 2019, 55, 3649-3659.	4.9	20
16	A Novel Structure of Doubly Salient Permanent Magnet Machine in Square Envelope. IEEE Transactions on Magnetics, 2019, 55, 1-5.	2.1	19
17	Design Optimization and Performance Investigation of Linear Doubly Salient Slot Permanent Magnet Machines. IEEE Transactions on Industry Applications, 2019, 55, 1524-1535.	4.9	18
18	Investigation of a Modular Linear Doubly Salient Machine With Dual-PM in Primary Yoke and Slot Openings. IEEE Transactions on Magnetics, 2019, 55, 1-6.	2.1	17

#	ARTICLE	IF	CITATIONS
19	Analysis of a New Partitioned-Primary Flux-Reversal Hybrid-Excited Linear Motor. IEEE Transactions on Industry Applications, 2021, 57, 448-457.	4.9	16
20	Analysis and Evaluation of Hybrid-Excited Doubly Salient Permanent Magnet Linear Machine With DC-Biased Armature Current. IEEE Transactions on Industry Applications, 2021, 57, 3666-3677.	4.9	16
21	Performance investigation of multi-tooth flux-switching PM linear motor. , 2011, , .		14
22	Analysis of a Novel Linear Doubly Salient Slot Permanent Magnet Motor. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	14
23	Design and Analysis of Linear Hybrid-Excited Slot Permanent Magnet Machines. IEEE Transactions on Magnetics, 2018, 54, 1-6.	2.1	14
24	A Novel Tubular Partitioned Stator Flux-Reversal Permanent Magnet Linear Machine for Direct-Drive Wave Energy Generation. IEEE Transactions on Magnetics, 2019, 55, 1-7.	2.1	14
25	Comparative Study of Two Novel Double-Sided Hybrid-Excitation Flux-Reversal Linear Motors With Surface and Interior PM Arrangements. IEEE Transactions on Magnetics, 2019, 55, 1-7.	2.1	14
26	Design and Analysis of a Switched Reluctance Motor with Superconducting Windings and Tapering Poles. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-4.	1.7	13
27	Design of a Dual-Stator Superconducting Permanent Magnet Wind Power Generator With Different Rotor Configuration. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	13
28	A Hybrid Interior Permanent Magnet Variable Flux Memory Machine Using Two-Part Rotor. IEEE Transactions on Magnetics, 2019, 55, 1-8.	2.1	13
29	Comparative Study of E-Core and C-Core Modular PM Linear Machines With Different Slot/Pole Combinations. IEEE Transactions on Magnetics, 2017, 53, 1-7.	2.1	12
30	Analysis of a permanent magnet linear synchronous motor with segmented armature for transportation system. , 2014, , .		11
31	Design Optimization and Performance Investigation of Novel Linear Induction Motors With Two Kinds of Secondaries. IEEE Transactions on Industry Applications, 2019, 55, 5830-5842.	4.9	11
32	Improved Analytical Modeling of a Novel Ironless Linear Synchronous Machine With Asymmetrical Double-Layer Winding Topology. IEEE Transactions on Industry Applications, 2021, 57, 1411-1419.	4.9	11
33	Design and Analysis of Tubular Linear PM Generator. IEEE Transactions on Magnetics, 2009, 45, 4716-4719.	2.1	10
34	Motor-Driven Giant Magnetostrictive Actuator. IEEE Transactions on Magnetics, 2015, 51, 1-7.	2.1	10
35	Optimal Design of Outer Rotor Interior Permanent Magnet Synchronous Machine With Hybrid Permanent Magnet. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	10
36	A Novel Hybrid-Excitation Switched-Flux Linear Machine With Partitioned-Excitations. IEEE Transactions on Magnetics, 2019, 55, 1-4.	2.1	10

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37	Design and Analysis of Hybrid-Excited Flux Modulated Linear Machines With Zero-Sequence Current Excitation. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 1834-1846.	5.4	10
38	Design Criterion and Analysis of Hybrid-Excited Vernier Reluctance Linear Machine With Slot Halbach PM Arrays. IEEE Transactions on Industrial Electronics, 2023, 70, 5074-5084.	7.9	10
39	Flux-Density Harmonics Analysis of Switched-Flux Permanent Magnet Machines. IEEE Transactions on Magnetics, 2019, 55, 1-7.	2.1	9
40	Analysis of synchronous parasitic torque in dual skew cage rotor induction motors with equivalent slot number. IET Electric Power Applications, 2017, 11, 1357-1365.	1.8	8
41	Robust Design and Analysis of Asymmetric-Excited Flux Reversal PM Linear Machine for Long-Stroke Direct Drive Propulsion. IEEE Transactions on Magnetics, 2021, 57, 1-4.	2.1	8
42	Analysis of thrust ripple of permanent magnet linear synchronous motor with skewed PMs. , 2015, , .		7
43	Investigation of double-sided multi-tooth switched-flux linear motor. , 2015, , .		7
44	Research on ropeless elevator driven by PMLSM. , 2016, , .		7
45	Fast Calculation of Detent Force in PM Linear Synchronous Machines With Considering Magnetic Saturation. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	7
46	Investigation of Novel Multi-Tooth Linear Variable Flux Reluctance Machines. IEEE Transactions on Magnetics, 2018, 54, 1-5.	2.1	7
47	Improved Primary/Secondary Pole Number Combinations for Dual-Armature Linear Switched Flux Permanent Magnet Machines. IEEE Transactions on Transportation Electrification, 2021, 7, 2589-2599.	7.8	7
48	Design and Analysis of a Novel Compositied Electromagnetic Linear Actuator. Actuators, 2022, 11, 6.	2.3	7
49	Research on single-pulse control of traction PMSM in high speed train based on co-simulation model. , 2014, , .		6
50	Model and analysis of integrative transverse-flux linear compressor. , 2015, , .		6
51	A Novel Linear Hybrid-Excited Slot Permanent Magnet Machine with DC-Biased Sinusoidal Current. , 2019, , .		6
52	Performance investigation of traction motors combined with finite element method and control simulation method. , 2013, , .		5
53	Performance of partitioned primary linear switched flux PM machines. , 2016, , .		5
54	Rotor eddy current analysis and optimisation design of intermediate ring in novel double squirrel-cage induction motor. IET Electric Power Applications, 2020, 14, 375-382.	1.8	5

#	ARTICLE	IF	CITATIONS
55	Comparative Study of Novel Doubly-Fed Linear Switched Flux Permanent Magnet Machines With Different Primary Structures. IEEE Access, 2020, 8, 69401-69412.	4.2	5
56	Optimization Design of Outer-rotor Permanent Magnet Synchronous Motor. , 2021, , .		5
57	Comparison Between Dual-Armature Linear Switched Flux Permanent Magnet Machine and Linear Surface-Mounted Permanent Magnet Machine Considering Thermal Conditions. IEEE Transactions on Energy Conversion, 2021, 36, 3522-3532.	5.2	5
58	A novel tubular permanent magnet linear synchronous motor used for elevator door. , 2007, , .		5
59	Design of single-sided linear induction motor for low-speed Maglev vehicle in 160 km/h and variable slip frequency control. Transportation Systems and Technology, 2018, 4, 120-128.	0.4	5
60	A novel transverse-flux switched-flux PM linear motor. , 2013, , .		4
61	A linear switched-flux PM machine with 9/10 primary/secondary pole number. , 2014, , .		4
62	Performance investigation of a novel multi-tooth switched-flux linear motor. , 2015, , .		4
63	Comparative Analysis of an Air-core PMLSM with New Double-layer Windings. , 2018, , .		4
64	Investigation of Electromagnetic Coupling Field of Traction and Levitation Systems in High Speed Maglev Train. , 2019, , .		4
65	Novel Linear Generator Concepts and Topologies for Wave Energy Conversion Systems: A Review. , 2021, , .		4
66	Modeling and Simulation of Traction Power Supply System for High-Speed Maglev Train. World Electric Vehicle Journal, 2022, 13, 82.	3.0	4
67	Research on linear induction motor of stereo garage with low frequency. , 2014, , .		3
68	Performance and control method of PMSMs traction system in high speed train under passing neutral section condition. , 2015, , .		3
69	Investigation of PMLM with different type winding for ropeless elevator. , 2015, , .		3
70	Design Optimization and Performance Investigation of Novel Double-slit Secondaries for Linear Induction Motors. , 2018, , .		3
71	Design optimization and performance investigation of novel linear induction motors with V-shaped ladder-slit secondary. International Journal of Applied Electromagnetics and Mechanics, 2018, 58, 157-174.	0.6	3
72	Investigation of Linear Generator for High Speed Maglev Train by 2D Finite Element Model. , 2019, , .		3

#	ARTICLE	IF	CITATIONS
73	Novel Single-Phase Short-Stroke Tubular Permanent Magnet Oscillating Machines with Partitioned Stator. <i>Energies</i> , 2021, 14, 1863.	3.1	3
74	Overview of Permanent Magnet Linear Machines with Primary Excitation. , 2021, , .		3
75	Performance study on linear induction motor used by amusement equipment based on FEM. , 2005, , .		2
76	Dead-time compensation in metro linear motor drive system. , 2011, , .		2
77	Electromagnetic and thermal coupling analysis of a water-cooled double-sided permanent magnet linear synchronous motor. , 2015, , .		2
78	Design optimization and performance investigation of novel linear switched flux PM machines. , 2016, , .		2
79	Double-Stator Air-Core Tubular Permanent Magnet Linear Motor for Vehicle Active Suspension Systems. , 2016, , .		2
80	Design and performance investigation of doubly salient slot permanent magnet linear machines. , 2017, , .		2
81	Optimization and performance of linear PM-assisted reluctance synchronous machine for wave energy generation. , 2017, , .		2
82	Magnetic-Thermal Coupled Analysis of Eletromagnets for Medium-speed Maglev Train. , 2019, , .		2
83	Investigation of a Novel Ironless Linear Synchronous Machine with Double-layer Winding and Quasi-Halbach Magnets. , 2019, , .		2
84	Eddy Current Analysis and Optimization Design of the Secondary of the Linear Induction Motor With an Approximation and Prediction Method. <i>IEEE Transactions on Magnetics</i> , 2022, 58, 1-5.	2.1	2
85	Thrust Ripple Influence of Fractional-Slot Permanent Magnet Linear Motors. , 2020, , .		2
86	Performance Analysis of Tubular Partitioned Stator Flux-Reversal Linear Machine With Different Slot/Pole Combinations and Winding Structures. <i>IEEE Transactions on Industry Applications</i> , 2022, 58, 1991-2000.	4.9	2
87	Optimization and comparison of C-core and E-core linear switched-flux PM machines with odd primary poles. , 2015, , .		1
88	Design of a dual-stator superconducting permanent magnet wind power generator with different rotor configuration. , 2016, , .		1
89	Fault-tolerant oriented control of modular linear switched-flux permanent magnet machine. , 2017, , .		1
90	A Novel Partitioned-primary Hybrid-excited Flux-switching Linear Machine with Dual-PM. , 2018, , .		1

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91	Analysis of a New Partitioned-primary Flux-reversal Hybrid-Excited Linear Motor. , 2019, , .		1
92	Performance Analysis of Tubular Flux-Reversal Linear Machine with Different Slot/Pole Combination. , 2020, , .		1
93	A Novel Doubly-Fed Flux Reversal Linear Machine With Armature Windings Wound on Both Stator and Mover Teeth. IEEE Access, 2020, 8, 35563-35571.	4.2	1
94	Electromagnetic Analysis of Hybrid-Excitation Magnetic Levitation System for Low-speed Maglev Train. , 2021, , .		1
95	A Deadbeat Direct Thrust Control for Permanent Magnet Linear Synchronous Machine Considering Parameter Asymmetry. , 2021, , .		1
96	Investigation of a Novel Linear Partitioned Primary Hybrid-excited Consequent-pole Flux-reversal Permanent Magnet Machine. , 2021, , .		1
97	Permanent Magnet or Additional Electromagnet Compensation Structures of End Electromagnet Module for Mid-Low Speed Maglev Train. World Electric Vehicle Journal, 2022, 13, 72.	3.0	1
98	Influence of stator and rotor pole number combinations and winding configurations on flux-weakening performance of switched-flux PM machines. , 2013, , .		0
99	Influence of flux gaps on the performance of modular PM linear synchronous motors. , 2014, , .		0
100	Fast calculation of detent force in PM linear synchronous machines with considering magnetic saturation. , 2016, , .		0
101	Research on Coordinated Control Method of PMSMs Traction System in EMU Train. , 2016, , .		0
102	Magnetic field analysis using an analytical method in a radial magnetic bearing. , 2016, , .		0
103	Thrust ripple and inductances characteristics of a hybrid-excited flux-switching linear machine. , 2017, , .		0
104	Research and Applications of Permanent Magnet Machines for Novel Railway Transportation Internal Combustion Power Packs. , 2020, , .		0
105	Fault-Tolerance Performance Analysis of a Five-Phase Permanent-Magnet Linear Synchronous Machine. IEEE Transactions on Magnetics, 2021, 57, 1-5.	2.1	0
106	Quantitative Analysis of Tubular Dual-Armature Switched Flux Permanent Magnet Machines for Shock Absorbers. , 2021, , .		0
107	Multi-Objective Optimization of the Linear Induction Motor by a Hybrid Optimal Strategy. , 2021, , .		0
108	Multi-objective Optimization for the Levitation System of the Electrodynamic Suspension Train with HTS Magnets. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
109	A Novel Flux Switching Permanent Magnet Planar Machine with Natural Decoupling of Two Orthogonal Motions. , 2020, , .		0