

Mingyao Lin

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	An Online Estimation Method for Both Stator Inductance and Rotor Flux Linkage of SPMSM Without Dead-Time Influence. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 1627-1638.	3.7	3
2	Design and Analysis of Dual-Rotor Modular-Stator Hybrid-Excited Axial-Flux Permanent Magnet Vernier Machine. Energies, 2022, 15, 1458.	1.6	2
3	Comprehensive Comparison of Two Fault Tolerant Axial Field Modular Flux-Switching Permanent Magnet Machines with Different Stator and Rotor Pole-Pairs Combinations. Machines, 2022, 10, 201.	1.2	1
4	A Family of High Step-Up DC-DC Converters With N Step-Up Cells and M Source Clamped Circuits. IEEE Access, 2021, 9, 65947-65966.	2.6	12
5	Online multi-parameter estimation of permanent magnet synchronous machine with step-pulse injection. IET Electric Power Applications, 2021, 15, 186-199.	1.1	1
6	Fast Initial Rotor Position Estimation for IPMSM With Unipolar Sequence-Pulse Injection. IEEE Transactions on Energy Conversion, 2021, 36, 3545-3554.	3.7	3
7	Unit Commitment with Concentrating Solar Power Plant Considering Receiver Operation Mode. , 2021, , .		0
8	Synchronous Control Strategy with Input Voltage Feedforward for a Four-Switch Buck-Boost Converter Used in a Variable-Speed PMSC Energy Storage System. Electronics (Switzerland), 2021, 10, 2375.	1.8	6
9	Investigation of the Torque Production Mechanism of Dual-Stator Axial-Field Flux-Switching Permanent Magnet Motors. Energies, 2021, 14, 5498.	1.6	1
10	A Novel Stator Cooling Structure for Yokeless and Segmented Armature Axial Flux Machine with Heat Pipe. Energies, 2021, 14, 5717.	1.6	18
11	A Rotor Cooling Enhanced Method for Axial Flux Permanent Magnet Synchronous Machine With Housing-Cooling. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.1	4
12	Variable Magnetic Characteristic Analysis of Series Hybrid Permanent Magnet Magnetic Circuit Using Low Coercive Force Permanent Magnet. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-4.	1.1	1
13	Comparative Analysis of Dual-Rotor Modular Stator Axial-Flux Permanent Magnet Machines With Different Rotor Topologies. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.1	3
14	Comparative Study of E- and U-core Modular Dual-Stator Axial-Field Flux-Switching Permanent Magnet Motors With Different Stator/Rotor-Pole Combinations Based on Flux Modulation Principle. IEEE Access, 2021, 9, 78635-78647.	2.6	8
15	A Novel Three-Vector-Based Model Predictive Direct Power Control for Three-Phase PWM Rectifier. Electronics (Switzerland), 2021, 10, 2579.	1.8	3
16	Design of a Novel Stator Water-cooling System for Yokeless and Segmented Armature Axial Flux Machine. , 2021, , .		5
17	A Novel Stator Resistance Online Identification method based on ADRC. , 2021, , .		1
18	A Family of High Step-Up Cascade DC-DC Converters With Clamped Circuits. IEEE Transactions on Power Electronics, 2020, 35, 4819-4834.	5.4	44

#	ARTICLE	IF	CITATIONS
19	High Step-Up Interleaved dc-dc Converter With Asymmetric Voltage Multiplier Cell and Coupled Inductor. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 4209-4222.	3.7	61
20	High step-up DC-DC converter with three capacitors clamped circuits for reduced out capacitor stress. IET Power Electronics, 2020, 13, 1974-1983.	1.5	7
21	Model Predictive Torque Control of a Hybrid Excited Axial Field Flux-Switching Permanent Magnet Machine. IEEE Access, 2020, 8, 33703-33712.	2.6	8
22	Cogging Torque Reduction in Double-Rotor Hybrid Excited Axial Switched-Flux Permanent Magnet Machine. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-5.	1.1	10
23	Influence of Rotor-Pole Number on Electromagnetic Performance of Novel Double-Rotor Hybrid Excited Axial Switched-Flux Permanent-Magnet Machines for EV/HEV Applications. IEEE Transactions on Magnetics, 2020, 56, 1-6.	1.2	7
24	A Novel High Power Density Permanent-Magnet Synchronous Machine With Wide Speed Range. IEEE Transactions on Magnetics, 2020, 56, 1-6.	1.2	13
25	Dual-Skew Magnet for Cogging Torque Minimization of Axial Flux PMSM With Segmented Stator. IEEE Transactions on Magnetics, 2020, 56, 1-6.	1.2	37
26	Design of a Novel Axial Flux Rotor Consequent-Pole Permanent Magnet Machine. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-6.	1.1	9
27	A Ripple-free Input Current Boost Converter With Asymmetric Voltage Multiplier cell for Distributed PV Generation Systems. , 2020, , .		1
28	Influence of Different Rotor Structures on Axial Flux Permanent Magnet Machine with Segmented Stator. , 2020, , .		0
29	Variable Magnet Analysis of the Series Hybrid Permanent Magnet Magnetic Circuit with AlNiCo. , 2020, , .		1
30	A Cooling Enhanced Method for Axial Flux Permanent Magnet Synchronous Machine. , 2020, , .		2
31	Offline Inductance Identification of IPMSM With Sequence-Pulse Injection. IEEE Transactions on Industrial Informatics, 2019, 15, 6127-6135.	7.2	29
32	Analysis of Axial Field Flux-Switching Memory Machine Based on 3-D Magnetic Equivalent Circuit Network Considering Magnetic Hysteresis. IEEE Transactions on Magnetics, 2019, 55, 1-4.	1.2	23
33	High Step-Up Boost Converter With Asymmetric Voltage Multiplier cell for Distributed PV Generation Systems. , 2019, , .		1
34	Indirect Analytical Modeling and Analysis of V-Shaped Interior PM Synchronous Machine. IEEE Access, 2019, 7, 173786-173795.	2.6	9
35	Multi-Objective Optimization of an Air-Cored Axial Flux Permanent Magnet Synchronous Machine with Segmented PMs based on Support Vector Machine and Genetic Algorithm. , 2019, , .		11
36	Off-line Stator Resistance Identification for PMSM with Pulse Signal Injection avoiding the Dead-time Effect. , 2019, , .		4

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37	Magnetization State Regulation Characteristic Study of Series Hybrid Permanent Magnet Axial Field Flux-Switching Memory Machine. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-6.	1.1	7
38	Three-Vector-Based Low-Complexity Model Predictive Direct Power Control Strategy for PWM Rectifier Without Voltage Sensors. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 240-251.	3.7	45
39	Design and Optimization of an Outer-Rotor Permanent Magnet Synchronous Machine With an Amorphous Stator Core. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.1	6
40	A Double Stator Axial Field Flux-Switching Memory Machine with Series Permanent Magnet and DC Field Winding. , 2018, , .		2
41	Influence of Rotor-Pole Number on Electromagnetic Performance of Novel Double-Rotor Hybrid Excited Axial Switched-Flux Permanent Magnet Machines for EV/HEV Applications. , 2018, , .		1
42	A Novel High Power Density Permanent Magnet Synchronous Machine with Wide Speed Range. , 2018, , .		1
43	Flux Regulation Characteristic Study of Hybrid Permanent Magnet Axial Field Flux-Switching Memory Machine Based on Quantitative Flux Regulation Pulse. , 2018, , .		3
44	Direct Input Power Control for Drive System of Single-Phase to Three-Phase Power Converter Without Electrolytic Capacitor. , 2018, , .		0
45	Dual-Skew Magnet in Cogging Torque Minimization of YASA Machine. , 2018, , .		0
46	Model Predictive Torque Control of a Hybrid Excited Axial Field Flux-Switching Permanent Magnet Machine with Reduced Torque Ripple. , 2018, , .		0
47	Three-Vector-Based Model Predictive Direct Power Control Strategy for PWM Rectifier. , 2018, , .		3
48	Fuzzy Logic Based Model Predictive Direct Power Control of Three Phase PWM Rectifier. , 2018, , .		5
49	Design, Analysis and Model Predictive Control of an Axial Field Switched-Flux Permanent Magnet Machine for Electric Vehicle/Hybrid Electric Vehicle Applications. Energies, 2018, 11, 1859.	1.6	5
50	Rotor Structure on Reducing Demagnetization of Magnet and Torque Ripple in a PMA-synRM With Ferrite Permanent Magnet. IEEE Transactions on Magnetics, 2018, 54, 1-5.	1.2	41
51	High step-up DC-DC converter with low power device voltage stress for a distributed generation system. IET Power Electronics, 2018, 11, 1955-1963.	1.5	24
52	Design and Optimization of an External Rotor Ironless BLDCM Used in a Flywheel Energy Storage System. IEEE Transactions on Magnetics, 2018, 54, 1-5.	1.2	9
53	Flux-Weakening Control Combined With Magnetization State Manipulation of Hybrid Permanent Magnet Axial Field Flux-Switching Memory Machine. IEEE Transactions on Energy Conversion, 2018, 33, 2210-2219.	3.7	12
54	Design and Analysis of Halbach Ironless Flywheel BLDC Motor/Generators. IEEE Transactions on Magnetics, 2018, 54, 1-5.	1.2	34

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55	Orthogonal Magnetic Field Analysis of a Double-Stator Linear-Rotary Permanent Magnet Motor With Orthogonally Arrayed Permanent Magnets. IEEE Transactions on Magnetics, 2017, 53, 1-4.	1.2	20
56	Ultralarge Gain Step-Up Coupled-Inductor DC-DC Converter With an Asymmetric Voltage Multiplier Network for a Sustainable Energy System. IEEE Transactions on Power Electronics, 2017, 32, 6896-6903.	5.4	95
57	Maximum torque output control of hybrid permanent magnet axial field flux-switching memory machine. , 2017, , .		6
58	Design and analysis of outer-rotor permanent magnet synchronous machine with amorphous stator core. , 2017, , .		2
59	Flux-weakening performance of series permanent magnet memory machine. , 2017, , .		1
60	End-effects analysis and experimental study of a double stator linear-rotary permanent magnet motor with long mover. IET Electric Power Applications, 2017, 11, 1601-1609.	1.1	12
61	Comparative study of flux-regulation method for stator permanent magnet memory machine. , 2017, , .		3
62	Static characteristics analysis of a dual-rotor axial field flux-switching permanent magnet machine. , 2017, , .		0
63	AC Copper Losses Analysis of the Ironless BLDCM Used in a Flywheel Energy Storage System. , 2016, , .		0
64	Design and Analysis of Magnetic Transmission for Converting Between Rotary and Rectilinear Motion. , 2016, , .		0
65	Design and analysis of a hybrid permanent magnet axial field flux-switching memory machine. , 2016, , .		3
66	Analysis of the end-effects in double stator linear-rotary permanent magnet motor with long mover. , 2016, , .		4
67	Analysis and Comparison of Axial Field Flux-Switching Permanent Magnet Machines With Three Different Stator Cores. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-6.	1.1	12
68	AC Copper Losses Analysis of the Ironless Brushless DC Motor used in a Flywheel Energy Storage System. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.1	22
69	Design and Analysis of a Double-Stator Linear-Rotary Permanent-Magnet Motor. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-4.	1.1	29
70	Design and Analysis of Novel Hybrid-Excited Axial Field Flux-Switching Permanent Magnet Machines. IEEE Transactions on Applied Superconductivity, 2016, , 1-1.	1.1	29
71	ANALYSIS OF COGGING TORQUE REDUCTION TECHNIQUES IN AXIAL FIELD FLUX-SWITCHING PERMANENT MAGNET MACHINE. IEEE Transactions on Applied Superconductivity, 2016, , 1-1.	1.1	17
72	Cogging Torque Reduction of a Hybrid Axial Field Flux-Switching Permanent-Magnet Machine With Three Methods. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.1	37

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73	Analysis of a Double Stator Linear Rotary Permanent Magnet Motor With Orthogonally Arrayed Permanent Magnets. IEEE Transactions on Magnetics, 2016, 52, 1-4.	1.2	33
74	Minimum copper loss control of hybrid excited axial field flux-switching machine. IET Electric Power Applications, 2016, 10, 82-90.	1.1	20
75	Analysis of Air-Gap Magnetic Field in Homopolar Inductor Alternator by Analytical Method and FEM. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	5
76	Influence of ferromagnetic pole-pieces on magnetic transmission for converting between rotary and rectilinear motion. , 2015, , .		0
77	Stator-flux-oriented vector control of hybrid excited axial field flux-switching machine. , 2015, , .		3
78	Vector Control of a Hybrid Axial Field Flux-Switching Permanent Magnet Machine Based on Particle Swarm Optimization. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	23
79	Cogging Torque Reduction of Axial-Field Flux-Switching Permanent Magnet Machine by Rotor Tooth Notching. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	46
80	Influence of rotor design parameters on static characteristics of a novel Hybrid Axial Field Flux-Switching Permanent Magnet machine. , 2014, , .		1
81	Comparison of electromagnetic performance on E-core axial field flux-switching permanent magnet machines. , 2014, , .		2
82	Rotor design techniques for reducing the cogging torque in a novel dual-rotor axial field flux-switching permanent magnet machine. , 2014, , .		9
83	Research on the stability of a wide input AC-DC converter used in high-speed low-voltage generator. , 2014, , .		1
84	Static Characteristics of a Novel Axial Field Flux-Switching Permanent Magnet Motor with Three Stator Structures. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	20
85	Cogging Torque Reduction of Axial Field Flux-Switching Permanent Magnet Machine by Adding Magnetic Bridge in Stator Tooth. IEEE Transactions on Applied Superconductivity, 2014, 24, 1-5.	1.1	26
86	Novel Fault-Tolerant Design of Axial Field Flux-Switching Permanent Magnet Machine. IEEE Transactions on Applied Superconductivity, 2014, 24, 1-4.	1.1	30
87	Iron Loss in Permanent Magnet-Inductor Hybrid Excitation Synchronous Generator. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	10
88	Calculation and Analysis of Rotor Eddy Current Loss of Permanent Magnet-Inductor Hybrid Excited Synchronous Generator. IEEE Transactions on Magnetics, 2013, 49, 2389-2392.	1.2	17
89	Influence of design parameters on output torque of axial field flux-switching permanent magnet machine. , 2013, , .		3
90	Influence of rotor pole number on optimal parameters in e-core axial field flux-switching permanent magnet machine. , 2013, , .		9

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91	Static Characteristics Analysis and Experimental Study of a Novel Axial Field Flux-Switching Permanent Magnet Generator. IEEE Transactions on Magnetics, 2012, 48, 4212-4215.	1.2	37
92	Novel Dual-Rotor Axial Field Flux-Switching Permanent Magnet Machine. IEEE Transactions on Magnetics, 2012, 48, 4232-4235.	1.2	46
93	Analysis and optimization of EMF waveform of a novel axial field flux-switching permanent magnet machine. , 2011, , .		13
94	A Novel Axial Field Flux-Switching Permanent Magnet Wind Power Generator. IEEE Transactions on Magnetics, 2011, 47, 4457-4460.	1.2	124
95	A new grid-connected system for axial field flux-switching permanent magnet wind power generator. , 2011, , .		1