

Guang-Jin Li

List of Publications by Year in descending order

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922
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#	ARTICLE	IF	CITATIONS
1	Reduction of Saturation and Unipolar Leakage Flux in Consequent-Pole PMV Machine. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 1870-1880.	3.7	2
2	Effect of Airgap Length on Electromagnetic Performance of Permanent Magnet Vernier Machines With Different Power Ratings. IEEE Transactions on Industry Applications, 2022, 58, 1920-1930.	3.3	4
3	Permanent Magnet Vernier Machines for Direct-Drive Offshore Wind Power: Benefits and Challenges. IEEE Access, 2022, 10, 20652-20668.	2.6	21
4	AC Losses in Form-Wound Coils of Surface Mounted Permanent Magnet Vernier Machines. IEEE Transactions on Magnetics, 2022, 58, 1-15.	1.2	1
5	Performance Investigation of Consequent-Pole PM Machines With E-core and C-core Modular Stators. IEEE Transactions on Energy Conversion, 2021, 36, 1169-1179.	3.7	16
6	Impact of Current Harmonic Injection on Performance of Multi-Phase Synchronous Reluctance Machines. IEEE Transactions on Energy Conversion, 2021, 36, 1649-1659.	3.7	4
7	Novel Liquid Cooling Technology for Modular Consequent-Pole PM Machines. , 2021, , .		7
8	Optimization of Modular SPM Machines Considering Stator Modularity. , 2021, , .		3
9	Scaling Effect on Inter-Turn Short-Circuit of PM Machines for Wind Power Application. , 2021, , .		4
10	IMPACT OF MAGNETIC COUPLING IN TRANSVERSE FLUX PERMANENT MAGNET MACHINE FOR WIND POWER APPLICATION. , 2021, , .		1
11	System-Level Investigation of Multi-MW Direct-Drive Wind Power PM Vernier Generators. IEEE Access, 2020, 8, 191433-191446.	2.6	21
12	Effect of Airgap Length on Electromagnetic Performance of Surface Mounted Permanent Magnet Vernier Machine. , 2020, , .		3
13	Improved Cooling in Modular Consequent Pole PM Machine Utilizing Flux Gaps. , 2020, , .		5
14	Analytical Modelling of Dynamic Performance with Harmonic Current Injection for Doubly Salient SynRMs. IEEE Transactions on Industry Applications, 2020, , 1-1.	3.3	3
15	Scaling Effect on Electromagnetic Performance of Surface-Mounted Permanent-Magnet Vernier Machine. IEEE Transactions on Magnetics, 2020, 56, 1-15.	1.2	17
16	Equivalent Magnetic Circuit Analysis of Doubly Salient PM Machine With Î-Shaped Stator Iron Core Segments. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-5.	1.1	11
17	Investigation of scaling effect on power factor of permanent magnet Vernier machines for wind power application. IET Electric Power Applications, 2020, 14, 2136-2145.	1.1	8
18	Vibrations and Acoustic Noise Analyses of Modular SPM Machines. , 2020, , .		2

#	ARTICLE	IF	CITATIONS
19	Comparative Studies of Fractional/Integer-Slot Consequent Pole Permanent Magnet Machines. , 2019, , .		5
20	Investigation of Integer/Fractional Slot Consequent Pole PM Machines with Different Rotor Structures. , 2019, , .		3
21	Torque Performance Improvement of Doubly Salient Synchronous Reluctance Machines by Current Harmonic Injection. , 2019, , .		1
22	Comparative investigation of stator-mounted permanent magnet machines under fault conditions. Journal of Engineering, 2019, 2019, 4241-4246.	0.6	1
23	Consequent Pole Permanent Magnet Vernier Machine With Asymmetric Air-Gap Field Distribution. IEEE Access, 2019, 7, 109340-109348.	2.6	9
24	Study of Manufacturing Tolerance of Modular Permanent Magnet Machines: Segment Radial Displacement. , 2019, , .		2
25	Investigation on Contribution of Inductance Harmonics to Torque Production in Multiphase Doubly Salient Synchronous Reluctance Machines. IEEE Transactions on Magnetics, 2019, 55, 1-10.	1.2	8
26	Performance comparison between consequent-pole and inset modular permanent magnet machines. Journal of Engineering, 2019, 2019, 3951-3955.	0.6	16
27	Losses in Different Doubly Salient Synchronous Reluctance Machines with Current Harmonic Injection. , 2019, , .		1
28	Performance of superconducting generators with different topologies under fault conditions. Journal of Engineering, 2019, 2019, 4090-4095.	0.6	1
29	Dynamic Performance Investigation of Doubly Salient Synchronous Reluctance Machines with Current Harmonic Injection. , 2019, , .		0
30	Comparative Studies of Torque Performance Improvement for Different Doubly Salient Synchronous Reluctance Machines by Current Harmonic Injection. IEEE Transactions on Energy Conversion, 2019, 34, 1094-1104.	3.7	27
31	Combined Multiphysics Model of Switched Flux PM Machines Under Fault Operations. IEEE Transactions on Industrial Electronics, 2019, 66, 6737-6745.	5.2	24
32	Novel Modular Switched Reluctance Machines for Performance Improvement. IEEE Transactions on Energy Conversion, 2018, 33, 1255-1265.	3.7	17
33	Demagnetization Withstand Capability Enhancement of Surface Mounted PM Machines Using Stator Modularity. IEEE Transactions on Industry Applications, 2018, 54, 1302-1311.	3.3	23
34	Investigation on synchronous reluctance machines with different rotor topologies and winding configurations. IET Electric Power Applications, 2018, 12, 45-53.	1.1	20
35	Recent development of reluctance machines with different winding configurations, excitation methods, and machine structures. CES Transactions on Electrical Machines and Systems, 2018, 2, 82-92.	2.7	7
36	Influence of Stator Topologies on Average Torque and Torque Ripple of Fractional-Slot SPM Machines With Fully Closed Slots. IEEE Transactions on Industry Applications, 2018, 54, 2151-2164.	3.3	22

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37	Modeling of Inter-Turn and Inter-Phase Short-Circuit of Flux-Switching Permanent Magnet Motors. , 2018, , .		1
38	Quantitative Analysis of Contribution of Air-Gap Field Harmonics to Torque Production in Three-Phase 12-Slot/8-Pole Doubly Salient Synchronous Reluctance Machines. IEEE Transactions on Magnetics, 2018, 54, 1-11.	1.2	6
39	Investigation of irreversible demagnetisation in switched flux permanent magnet machines under short-circuit conditions. IET Electric Power Applications, 2017, 11, 595-602.	1.1	13
40	Influence of Pole Number and Stator Outer Diameter on Volume, Weight, and Cost of Superconducting Generators With Iron-Cored Rotor Topology for Wind Turbines. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-9.	1.1	11
41	Comparison of Electromagnetic Performance of 10-MW Superconducting Generators With Different Topologies for Offshore Direct-Drive Wind Turbines. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-11.	1.1	16
42	Design guidelines for fractional slot multi-phase modular permanent magnet machines. IET Electric Power Applications, 2017, 11, 1023-1031.	1.1	24
43	Comparative Study of Fault-Tolerant Switched-Flux Permanent-Magnet Machines. IEEE Transactions on Industrial Electronics, 2017, 64, 1939-1948.	5.2	22
44	Design considerations for high-power converters interfacing 10 MW superconducting wind power generators. IET Power Electronics, 2017, 10, 1461-1467.	1.5	3
45	Demagnetization of modular surface mounted permanent magnet machines. , 2016, , .		4
46	Performance Comparison of Doubly Salient Reluctance Machine Topologies Supplied by Sinewave Currents. IEEE Transactions on Industrial Electronics, 2016, 63, 4086-4096.	5.2	46
47	Influence of slot opening and flux gaps on the voltage distortion in SPM machines. , 2016, , .		2
48	Comparison of Peak Armature and Field Winding Currents for Different Topologies of 10-MW Superconducting Generators Under Short-Circuit Conditions. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-7.	1.1	1
49	Cogging torque and torque ripple reduction of modular permanent magnet machines. , 2016, , .		6
50	Influence of Conduction Angles on Single-Layer Switched Reluctance Machines. IEEE Transactions on Magnetics, 2016, 52, 1-11.	1.2	9
51	Torque investigation of fractional-slot permanent magnet machines with different winding topology and stator structures. , 2016, , .		2
52	Comparative study of voltage distortion in fractional-slot PM machines having different winding and stator configurations. , 2016, , .		2
53	Comparative Study of Torque Production in Conventional and Mutually Coupled SRMs Using Frozen Permeability. IEEE Transactions on Magnetics, 2016, 52, 1-9.	1.2	25
54	Superposition Method for Cogging Torque Prediction in Permanent Magnet Machines With Rotor Eccentricity. IEEE Transactions on Magnetics, 2016, 52, 1-10.	1.2	31

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55	Cogging Torque Mitigation of Modular Permanent Magnet Machines. IEEE Transactions on Magnetics, 2016, 52, 1-10.	1.2	38
56	Performance investigation of hybrid excited switched flux permanent magnet machines using frozen permeability method. IET Electric Power Applications, 2015, 9, 586-594.	1.1	24
57	Comparative study of short-pitched and fully-pitched SRMs supplied by sine wave currents. , 2015, , .		4
58	Comparative study of alternative modular switched flux permanent magnet machines. , 2015, , .		4
59	Modular Permanent-Magnet Machines With Alternate Teeth Having Tooth Tips. IEEE Transactions on Industrial Electronics, 2015, 62, 6120-6130.	5.2	32
60	Analytical Modeling of Modular and Unequal Tooth Width Surface-Mounted Permanent Magnet Machines. IEEE Transactions on Magnetics, 2015, 51, 1-9.	1.2	25
61	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.	1.2	25
62	Electromagnetic loss investigation and mitigation in switched flux permanent magnet machines. , 2014, , .		5
63	Thermal modelling of switched flux permanent magnet machines. , 2014, , .		12
64	Influence of Flux Gaps on Electromagnetic Performance of Novel Modular PM Machines. IEEE Transactions on Energy Conversion, 2014, 29, 716-726.	3.7	70
65	Comparative Studies of Modular and Unequal Tooth PM Machines Either With or Without Tooth Tips. IEEE Transactions on Magnetics, 2014, 50, 1-10.	1.2	48
66	Excitation Winding Short-Circuits in Hybrid Excitation Permanent Magnet Motor. IEEE Transactions on Energy Conversion, 2014, 29, 567-575.	3.7	22
67	Comparative Study of Classical and Mutually Coupled Switched Reluctance Motors Using Multiphysics Finite-Element Modeling. IEEE Transactions on Industrial Electronics, 2014, 61, 5066-5074.	5.2	83
68	Design of a Flux-Switching Electrical Generator for Wind Turbine Systems. IEEE Transactions on Industry Applications, 2012, 48, 1808-1816.	3.3	56
69	Comparative study of vibration and acoustic noise between classical and mutually coupled switched reluctance motors. , 2012, , .		8
70	Thermal Electromagnetic Analysis for Driving Cycles of Embedded Flux-Switching Permanent-Magnet Motors. IEEE Transactions on Vehicular Technology, 2012, 61, 140-151.	3.9	71
71	Modification in Rotor Pole Geometry of Mutually Coupled Switched Reluctance Machine for Torque Ripple Mitigating. IEEE Transactions on Magnetics, 2012, 48, 2025-2034.	1.2	102
72	Thermal-electromagnetic analysis of a fault-tolerant dual-star flux-switching permanent magnet motor for critical applications. IET Electric Power Applications, 2011, 5, 503.	1.1	43

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73	Comparative Studies Between Classical and Mutually Coupled Switched Reluctance Motors Using Thermal-Electromagnetic Analysis for Driving Cycles. IEEE Transactions on Magnetics, 2011, 47, 839-847.	1.2	76
74	Double and single layers flux-switching permanent magnet motors: Fault tolerant model for critical applications. , 2011, , .		10
75	Short-range interaction affecting transport properties of two-dimensional electron Gas with nearby embedded self-assembled GaSb/GaAs type-II quantum dots. , 2010, , .		0
76	Comparative study of Switched Reluctance Motors performances for two current distributions and excitation modes. , 2009, , .		35