Guang-Jin Li

List of Publications by Year
in descending order

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76 papers	1,337 citations	331538 21 h-index	377752 34 g-index
76 all docs	76 docs citations	76 times ranked	922 citing authors

#	Article	IF	Citations
1	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
2	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
3	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
4	Thermalâ€“Electromagnetic Analysis for Driving Cycles of Embedded Flux-Switching Permanent-Magnet Motors. IEEE Transactions on Vehicular Technology, 2012, 61, 140-151.	3.9	71
5	Influence of Flux Gaps on Electromagnetic Performance of Novel Modular PM Machines. IEEE Transactions on Energy Conversion, 2014, 29, 716-726.	3.7	70
6	Design of a Flux-Switching Electrical Generator for Wind Turbine Systems. IEEE Transactions on Industry Applications, 2012, 48, 1808-1816.	3.3	56
7	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
8	Performance Comparison of Doubly Salient Reluctance Machine Topologies Supplied by Sinewave Currents. IEEE Transactions on Industrial Electronics, 2016, 63, 4086-4096.	5.2	46
9	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
10	Cogging Torque Mitigation of Modular Permanent Magnet Machines. IEEE Transactions on Magnetics, 2016, 52, 1-10.	1.2	38
11	Comparative study of Switched Reluctance Motors performances for two current distributions and excitation modes. , 2009, , .		35
12	Modular Permanent-Magnet Machines With Alternate Teeth Having Tooth Tips. IEEE Transactions on Industrial Electronics, 2015, 62, 6120-6130.	5.2	32
13	Superposition Method for Cogging Torque Prediction in Permanent Magnet Machines With Rotor Eccentricity. IEEE Transactions on Magnetics, 2016, 52, 1-10.	1.2	31
14	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
15	Analytical Modeling of Modular and Unequal Tooth Width Surface-Mounted Permanent Magnet Machines. IEEE Transactions on Magnetics, 2015, 51, 1-9.	1.2	25
16	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
17	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
18	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

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19	Design guidelines for fractional slot multiâ€phase modular permanent magnet machines. IET Electric Power Applications, 2017, 11, 1023-1031.	1.1	24
20	Combined Multiphysics Model of Switched Flux PM Machines Under Fault Operations. IEEE Transactions on Industrial Electronics, 2019, 66, 6737-6745.	5.2	24
21	Demagnetization Withstand Capability Enhancement of Surface Mounted PM Machines Using Stator Modularity. IEEE Transactions on Industry Applications, 2018, 54, 1302-1311.	3.3	23
22	Excitation Winding Short-Circuits in Hybrid Excitation Permanent Magnet Motor. IEEE Transactions on Energy Conversion, 2014, 29, 567-575.	3.7	22
23	Comparative Study of Fault-Tolerant Switched-Flux Permanent-Magnet Machines. IEEE Transactions on Industrial Electronics, 2017, 64, 1939-1948.	5.2	22
24	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
25	System-Level Investigation of Multi-MW Direct-Drive Wind Power PM Vernier Generators. IEEE Access, 2020, 8, 191433-191446.	2.6	21
26	Permanent Magnet Vernier Machines for Direct-Drive Offshore Wind Power: Benefits and Challenges. IEEE Access, 2022, 10, 20652-20668.	2.6	21
27	Investigation on synchronous reluctance machines with different rotor topologies and winding configurations. IET Electric Power Applications, 2018, 12, 45-53.	1.1	20
28	Novel Modular Switched Reluctance Machines for Performance Improvement. IEEE Transactions on Energy Conversion, 2018, 33, 1255-1265.	3.7	17
29	Scaling Effect on Electromagnetic Performance of Surface-Mounted Permanent-Magnet Vernier Machine. IEEE Transactions on Magnetics, 2020, 56, 1-15.	1.2	17
30	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
31	Performance comparison between consequentâ€pole and inset modular permanent magnet machines. Journal of Engineering, 2019, 2019, 3951-3955.	0.6	16
32	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
33	Investigation of irreversible demagnetisation in switched flux permanent magnet machines under shortâ€circuit conditions. IET Electric Power Applications, 2017, 11, 595-602.	1.1	13
34	Thermal modelling of switched flux permanent magnet machines. , 2014, , .		12
35	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
36	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

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37	Double and single layers flux-switching permanent magnet motors: Fault tolerant model for critical applications. , 2011, , .		10
38	Influence of Conduction Angles on Single-Layer Switched Reluctance Machines. IEEE Transactions on Magnetics, 2016, 52, 1-11.	1.2	9
39	Consequent Pole Permanent Magnet Vernier Machine With Asymmetric Air-Gap Field Distribution. IEEE Access, 2019, 7, 109340-109348.	2.6	9
40	Comparative study of vibration and acoustic noise between classical and mutually coupled switched reluctance motors. , 2012, , .		8
41	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
42	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
43	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
44	Novel Liquid Cooling Technology for Modular Consequent-Pole PM Machines. , 2021, , .		7
45	Cogging torque and torque ripple reduction of modular permanent magnet machines. , 2016, , .		6
46	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
47	Electromagnetic loss investigation and mitigation in switched flux permanent magnet machines. , 2014, , .		5
48	Comparative Studies of Fractional/Integer-Slot Consequent Pole Permanent Magnet Machines. , 2019, , .		5
49	Improved Cooling in Modular Consequent Pole PM Machine Utilizing Flux Gaps. , 2020, , .		5
50	Comparative study of short-pitched and fully-pitched SRMs supplied by sine wave currents. , 2015, , .		4
51	Comparative study of alternative modular switched flux permanent magnet machines. , 2015, , .		4
52	Demagnetization of modular surface mounted permanent magnet machines. , 2016, , .		4
53	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
54	Scaling Effect on Inter-Turn Short-Circuit of PM Machines for Wind Power Application. , 2021, , .		4

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55	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
56	Design considerations for highâ€power converters interfacing 10 MW superconducting wind power generators. IET Power Electronics, 2017, 10, 1461-1467.	1.5	3
57	Investigation of Integer/Fractional Slot Consequent Pole PM Machines with Different Rotor Structures. , 2019, , .		3
58	Effect of Airgap Length on Electromagnetic Performance of Surface Mounted Permanent Magnet Vemier Machine. , 2020, , .		3
59	Analytical Modelling of Dynamic Performance with Harmonic Current Injection for Doubly Salient SynRMs. IEEE Transactions on Industry Applications, 2020, , 1-1.	3.3	3
60	Optimization of Modular SPM Machines Considering Stator Modularity. , 2021, , .		3
61	Influence of slot opening and flux gaps on the voltage distortion in SPM machines. , 2016, , .		2
62	Torque investigation of fractional-slot permanent magnet machines with different winding topology and stator structures. , 2016, , .		2
63	Comparative study of voltage distortion in fractional-slot PM machines having different winding and stator configurations. , 2016, , .		2
64	Study of Manufacturing Tolerance of Modular Permanent Magnet Machines: Segment Radial Displacement. , 2019, , .		2
65	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
66	Vibrations and Acoustic Noise Analyses of Modular SPM Machines. , 2020, , .		2
67	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
68	Modeling of Inter-Turn and Inter-Phase Short-Circuit of Flux-Switching Permanent Magnet Motors. , 2018, , .		1
69	Torque Performance Improvement of Doubly Salient Synchronous Reluctance Machines by Current Harmonic Injection. , 2019, , .		1
70	Comparative investigation of statorâ€mounted permanent magnet machines under fault conditions. Journal of Engineering, 2019, 2019, 4241-4246.	0.6	1
71	Losses in Different Doubly Salient Synchronous Reluctance Machines with Current Harmonic Injection. , 2019, , .		1
72	Performance of superconducting generators with different topologies under fault conditions. Journal of Engineering, 2019, 2019, 4090-4095.	0.6	1

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73	IMPACT OF MAGNETIC COUPLING IN TRANSVERSE FLUX PERMANENT MAGNET MACHINE FOR WIND POWER APPLICATION. , 2021, , .		1
74	AC Losses in Form-Wound Coils of Surface Mounted Permanent Magnet Vernier Machines. IEEE Transactions on Magnetics, 2022, 58, 1-15.	1.2	1
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	Dynamic Performance Investigation of Doubly Salient Synchronous Reluctance Machines with Current Harmonic Injection. , 2019, , .		0