

# Li Quan

## List of Publications by Year in descending order

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110  
papers

2,143  
citations

218677

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254184

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110  
docs citations

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times ranked

1078  
citing authors

#	ARTICLE	IF	CITATIONS
1	Torque Component Redistribution and Enhancement for Hybrid Permanent Magnet Motor With Permanent Magnet Offset Placement. IEEE Transactions on Transportation Electrification, 2023, 9, 631-641.	7.8	5
2	Multi-Objective-Layered Optimization of a Magnetic Planetary Gear for Hybrid Powertrain. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 934-944.	5.4	6
3	Partitioned Stator Hybrid Excited Machine With DC-Biased Sinusoidal Current. IEEE Transactions on Industrial Electronics, 2022, 69, 236-248.	7.9	31
4	Multi-Objective Optimization Design of a Multi-Permanent-Magnet Motor Considering Magnet Characteristic Variation Effects. IEEE Transactions on Industrial Electronics, 2022, 69, 3428-3438.	7.9	30
5	Low Harmonics Design for Modular Permanent Magnet Synchronous Machine Using Partitioned Winding. IEEE Transactions on Industrial Electronics, 2022, 69, 9268-9278.	7.9	9
6	Robust Optimization Design for Permanent Magnet Machine Considering Magnet Material Uncertainties. IEEE Transactions on Magnetics, 2022, 58, 1-7.	2.1	6
7	Suppression of Torque Ripple of a Flux-Switching Permanent Magnet Motor in Perspective of Flux-Modulation Principle. IEEE Transactions on Transportation Electrification, 2022, 8, 1116-1127.	7.8	10
8	Flux-Leakage Design Principle and Multiple-Operating Conditions Modeling of Flux Leakage Controllable PM Machine Considering Driving Cycles. IEEE Transactions on Industrial Electronics, 2022, 69, 8862-8874.	7.9	21
9	Improved duty cycle modulation direct torque control for dual three-phase PMSM with voltage vector online optimization. Journal of Power Electronics, 2022, 22, 222-233.	1.5	0
10	Comparative Analysis and Design of Partitioned Stator Hybrid Excitation Axial Flux Switching PM Motors for In-Wheel Traction Applications. IEEE Transactions on Energy Conversion, 2022, 37, 1416-1427.	5.2	23
11	Research on Magnetic Coupling Characteristic of a Double Rotor Flux-Switching PM Machine From the Perspective of Air-Gap Harmonic Groups. IEEE Transactions on Industrial Electronics, 2022, 69, 12551-12563.	7.9	33
12	A Pole-Changing Doubly Salient Permanent Magnet Motor. IEEE Transactions on Transportation Electrification, 2022, 8, 2479-2489.	7.8	12
13	Torque Ripple Suppression of a Permanent Magnet Vernier Motor From Perspective of Shifted Air-Gap Permeance Distribution. IEEE Transactions on Magnetics, 2022, 58, 1-6.	2.1	0
14	Design and Optimization of Double-Stator Vernier Permanent Magnet Motor With Improved Torque Characteristics Based on Flux Modulation Theory. IEEE Transactions on Magnetics, 2022, 58, 1-7.	2.1	7
15	A Robust Optimization Design Approach for Hybrid PM Machine Considering Asymmetric Uncertainties of PMs. IEEE Transactions on Magnetics, 2022, 58, 1-7.	2.1	4
16	Broadening Design and Optimization of High-Efficiency Region for a Dual-Mechanical-Port Flux-Switching Permanent Magnet Motor. IEEE Transactions on Magnetics, 2022, 58, 1-7.	2.1	1
17	Design and Analysis of a V-Shaped Permanent Magnet Vernier Motor for High Torque Density. CES Transactions on Electrical Machines and Systems, 2022, 6, 20-28.	3.5	4
18	Robust Optimization of a Rare-Earth-Reduced High-Torque-Density PM Motor for Electric Vehicles Based on Parameter Sensitivity Region. IEEE Transactions on Vehicular Technology, 2022, 71, 10269-10279.	6.3	7

#	ARTICLE	IF	CITATIONS
19	Optimization Design of Power Factor for an In-Wheel Vernier PM Machine From the Perspective of Air-Gap Harmonic Modulation. IEEE Transactions on Industrial Electronics, 2021, 68, 9265-9276.	7.9	37
20	Multi-objective Optimization Design of Variable-Saliency-Ratio PM Motor Considering Driving Cycles. IEEE Transactions on Industrial Electronics, 2021, 68, 6516-6526.	7.9	69
21	Flux-Weakening Capability Enhancement Design and Optimization of a Controllable Leakage Flux Multilayer Barrier PM Motor. IEEE Transactions on Industrial Electronics, 2021, 68, 7814-7825.	7.9	24
22	Anti-Demagnetization Capability Research of a Less-Rare-Earth Permanent-Magnet Synchronous Motor Based on the Modulation Principle. IEEE Transactions on Magnetics, 2021, 57, 1-6.	2.1	6
23	Investigation on Torque Characteristic and PM Operation Point of Flux-Intensifying PM Motor Considering Low-Speed Operation. IEEE Transactions on Magnetics, 2021, 57, 1-5.	2.1	12
24	Power Oriented Design and Optimization of Dual Stator Linear-Rotary Generator With Halbach PM Array for Ocean Energy Conversion. IEEE Transactions on Energy Conversion, 2021, 36, 3414-3426.	5.2	10
25	Torque Ripple Reduction of PMSM With Small Capacitor Drive Systems Based on Combined Control Method. IEEE Access, 2021, 9, 98874-98882.	4.2	2
26	Cogging Torque Reduction of Halbach Array Permanent Magnet Motor Based on Magnetic Field Energy Equivalence. , 2021, , .		1
27	Research on Power Factor Characteristic for a Flux-Modulated Permanent Magnet Motor From Perspective of Magnetic Source Topologies Effect. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-6.	1.7	2
28	Airgap-Harmonic-Based Multilevel Design and Optimization of a Double-Stator Flux-Modulated Permanent-Magnet Motor. IEEE Transactions on Industrial Electronics, 2021, 68, 10534-10545.	7.9	29
29	Research On Enhanced Harmonic Effect of a Dual-PM-Excited Flux-Modulated Motor. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-6.	1.7	4
30	Research on Main Working Harmonic Effect of Flux-Modulated Permanent Magnet Motor with Different Magnetic Source Topologies. , 2021, , .		0
31	Design and Analysis of Multi-Injection-Harmonic Surface-Inset Permanent Magnet Motor with Low Torque Ripple. , 2021, , .		0
32	Design and Optimization of a Flux-Modulated Permanent Magnet Motor Based on an Airgap-Harmonic-Orientated Design Methodology. IEEE Transactions on Industrial Electronics, 2020, 67, 5337-5348.	7.9	70
33	Dual Quasi-Resonant Controller Position Observer Based on High Frequency Pulse Voltage Injection Method. IEEE Access, 2020, 8, 213266-213276.	4.2	8
34	Design and Analysis of Double-Stator Flux Modulated Permanent Magnet Motor Based on Flux Modulation Theory. , 2020, , .		1
35	Electromagnetic Performance Analysis of an Axial Flux Partitioned Stator Hybrid-Excited Less-Rare-Earth PM Synchronous Motor. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-5.	1.7	7
36	Cogging Torque Reduction of A V-Shaped PM Vernier Motor from Perspective of Airgap Permeance. , 2020, , .		2

#	ARTICLE	IF	CITATIONS
37	Design of a Split-slot Dual-Permanent-Magnet-Excited Machine Based on Torque-Loss-Ratio. , 2020, , .		2
38	Research on Magnetic Source Topologies Effect for A High Power Factor Flux-Modulated PM Motor. , 2020, , .		1
39	Design and Analysis of a Dual-PM-Excited Motor Considering Harmonic Characteristics. , 2020, , .		1
40	Active Disturbance Rejection Controller for Speed Control of Electrical Drives Using Phase-Locking Loop Observer. IEEE Transactions on Industrial Electronics, 2019, 66, 1748-1759.	7.9	108
41	Systematic multi-level optimization design and dynamic control of less-rare-earth hybrid permanent magnet motor for all-climatic electric vehicles. Applied Energy, 2019, 253, 113549.	10.1	58
42	Design and Analysis of Double-Air-Gap Flux-Modulated Permanent Magnet Motor Considering Leading Working Harmonics. IEEE Transactions on Magnetics, 2019, 55, 1-5.	2.1	10
43	Design and Comparison of Two Hybrid Less-Rare-Earth Permanent Magnet Machines with Different Rotor Topologies. , 2019, , .		3
44	Reverse Saliency Optimization of Flux-Intensifying Hybrid Permanent Magnet Machine for Variable Speed Applications. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	8
45	Investigation of an Asymmetrical Rotor Hybrid Permanent Magnet Motor for Approaching Maximum Output Torque. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-4.	1.7	26
46	Design and Multi-Objective Stratified Optimization of a Less-Rare-Earth Hybrid Permanent Magnets Motor With High Torque Density and Low Cost. IEEE Transactions on Energy Conversion, 2019, 34, 1178-1189.	5.2	79
47	Multiobjective Optimization Design of a Double-Rotor Flux-Switching Permanent Magnet Machine Considering Multimode Operation. IEEE Transactions on Industrial Electronics, 2019, 66, 641-653.	7.9	80
48	Optimisation design of a flux memory motor based on a new non-linear MC&Ecirc;DRN model. IET Electric Power Applications, 2019, 13, 2035-2043.	1.8	4
49	Temperature Rise Calculation of a Flux-Switching Permanent-Magnet Double-Rotor Machine Using Electromagnetic-Thermal Coupling Analysis. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	38
50	Multimode Optimization Design Methodology for a Flux-Controllable Stator Permanent Magnet Memory Motor Considering Driving Cycles. IEEE Transactions on Industrial Electronics, 2018, 65, 5353-5366.	7.9	166
51	Investigation of Optimal Split Ratio in Brushless Dual-Rotor Flux-Switching Permanent Magnet Machine Considering Power Allocation. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	14
52	Multimode Optimization Research on a Multiport Magnetic Planetary Gear Permanent Magnet Machine for Hybrid Electric Vehicles. IEEE Transactions on Industrial Electronics, 2018, 65, 9035-9046.	7.9	65
53	Design and Analysis of a Hybrid Permanent Magnet Assisted Synchronous Reluctance Motor Considering Magnetic Saliency and PM Usage. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-6.	1.7	36
54	Design and Analysis of an Interior Permanent Magnet Synchronous Machine With Multiflux-Barriers Based on Flux-Intensifying Effect. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.7	16

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55	Optimal Design and Analysis of Partitioned Stator Hybrid Excitation Doubly Salient Machine. IEEE Access, 2018, 6, 57700-57707.	4.2	10
56	Investigation of Reverse Saliency Characteristic in Flux-Intensifying Hybrid Permanent Magnet Motor Considering Various Operation Conditions. , 2018, , .		2
57	Dynamic demagnetisation investigation for less-rare-earth flux switching permanent magnet motors considering three-phase short-circuit fault. IET Electric Power Applications, 2018, 12, 1176-1182.	1.8	7
58	Loss and Efficiency of a Flux-Switching Permanent-Magnet Double-Rotor Machine With High Torque Density. IEEE Transactions on Magnetics, 2018, 54, 1-5.	2.1	5
59	Rotor position estimation scheme with harmonic ripple attenuation for sensorless controlled permanent magnet synchronous motors. IET Electric Power Applications, 2018, 12, 1200-1206.	1.8	17
60	Comparative Design and Analysis of New Type of Flux-Intensifying Interior Permanent Magnet Motors With Different $Q$ -Axis Rotor Flux Barriers. IEEE Transactions on Energy Conversion, 2018, 33, 2260-2269.	5.2	46
61	Comparative Investigation of Hybrid Excitation Flux Switching Machines. Energies, 2018, 11, 1428.	3.1	2
62	A V-Shaped PM Vernier Motor With Enhanced Flux-Modulated Effect and Low Torque Ripple. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	15
63	Characteristic analysis of a less-rare-earth hybrid PM-assisted synchronous reluctance motor for EVs application. AIP Advances, 2017, 7, .	1.3	10
64	Design and Multicondition Comparison of Two Outer-Rotor Flux-Switching Permanent-Magnet Motors for In-Wheel Traction Applications. IEEE Transactions on Industrial Electronics, 2017, 64, 6137-6148.	7.9	103
65	Resource management and scheduling policy based on grid for AIoT. Modern Physics Letters B, 2017, 31, 1740066.	1.9	2
66	Demagnetization investigation of a partitioned rotor flux switching machine with hybrid permanent magnet. AIP Advances, 2017, 7, .	1.3	4
67	A new service-oriented grid-based method for AIoT application and implementation. Modern Physics Letters B, 2017, 31, 1740064.	1.9	10
68	Comprehensive multi-objective scalarisation optimisation of a permanent magnet machine with correlation parameters stratified method. IET Electric Power Applications, 2017, 11, 72-79.	1.8	13
69	Electromagnetic Performance Evaluation of an Outer-Rotor Flux-Switching Permanent Magnet Motor Based on Electrical-Thermal Two-Way Coupling Method. Energies, 2017, 10, 677.	3.1	7
70	Electromagnetic Performance Analysis of a Partitioned Rotor Hybrid-Excited Flux-Switching Permanent Magnet Machine. , 2016, , .		1
71	Performance Evaluation of a U-Shaped Less-Rare-Earth Hybrid Permanent Magnet Assisted Synchronous Reluctance Motor. , 2016, , .		6
72	Analysis of Variable Voltage Gain Power Converter for Switched Reluctance Motor. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.7	11

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73	Electromagnetic Performance Analysis of Less Rare-Earth Double-Stator Permanent Magnet Machine. , 2016, , .		0
74	Multilevel Design Optimization and Operation of a Brushless Double Mechanical Port Flux-Switching Permanent-Magnet Motor. IEEE Transactions on Industrial Electronics, 2016, 63, 6042-6054.	7.9	146
75	Performance Analysis of a Double-Salient Permanent-Magnet Double-Rotor Motor Using Electromagnetic Thermal Coupling Method. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.7	21
76	A New Partitioned-Rotor Flux-Switching Permanent Magnet Motor With High Torque Density and Improved Magnet Utilization. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.7	23
77	Comparison of Flux-Switching PM Motors With Different Winding Configurations Using Magnetic Gearing Principle. IEEE Transactions on Magnetics, 2016, 52, 1-8.	2.1	68
78	Comparative study of constant power speed range of three permanent magnet brushless machines with different d-axis inductance for electric vehicles. , 2015, , .		1
79	Energy management control strategy for plug-in hybrid electric vehicle with brushless dual-rotor flux-switching permanent magnet motor. , 2015, , .		2
80	Thermal analysis of a "V"-shape sandwiched flux switching permanent magnet machine for electric vehicles. , 2015, , .		5
81	Equivalent variable permeance-networks analysis for out-rotor double-salient permanent-magnet in-wheel motors. , 2015, , .		1
82	Design and Optimization of Permanent Magnet Brushless Machines for Electric Vehicle Applications. Energies, 2015, 8, 13996-14008.	3.1	30
83	A Non-Rare-Earth Doubly Salient Flux Controllable Motor Capable of Fault-Tolerant Control. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	19
84	A Brushless Double Mechanical Port Permanent Magnet Motor for Plug-In HEVs. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	21
85	Electromagnetic performances analysis of flux-intensifying permanent magnet synchronous machine with modular fractional slot concentrated windings. , 2014, , .		0
86	Design of a sandwiched flux switching permanent magnet machine with outer-rotor configuration. , 2014, , .		5
87	Multi-Objective Optimization Design of a Magnetic Planetary Geared Permanent Magnet Brushless Machine by Combined Design of Experiments and Response Surface Methods. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	45
88	Alternative stator for new brushless dual-rotor flux-switching permanent magnet motor for extended range electric vehicles. , 2014, , .		5
89	Minimization the torque ripple of flux-switching permanent magnet motor based on iterative learning control. , 2014, , .		5
90	The performance of a hybrid excitation flux switching motor with ferrite magnets for EVs. , 2014, , .		5

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91	Design of a wireless power transfer system for EV application based on finite element analysis and MATLAB simulation. , 2014, , .		9
92	Comparison of double-stator flux-switching permanent magnet machine and double-stator permanent magnet synchronous machine for electric vehicle applications. , 2014, , .		10
93	Comparison and Analysis of Flux-Switching Permanent-Magnet Double-Rotor Machine With 4QT Used for HEV. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	30
94	Sandwiched Flux-Switching Permanent-Magnet Brushless AC Machines Using V-Shape Magnets. , 2013, , .		2
95	Investigation on the Dynamic Performances of a Doubly Salient Flux Memory Motor under On-Line Flux Regulation for Electric Vehicles. , 2013, , .		0
96	Optimizing Design of Magnetic Planetary Gearbox for Reduction of Cogging Torque. , 2013, , .		7
97	Electromagnetic performances analysis of a new magnetic-planetary-g geared permanent magnet brushless machine for hybrid electric vehicles. , 2012, , .		2
98	A New Magnetic-Planetary-G geared Permanent Magnet Brushless Machine for Hybrid Electric Vehicle. IEEE Transactions on Magnetics, 2012, 48, 4642-4645.	2.1	53
99	Permanent magnet online magnetization performance analysis of a flux mnemonic double salient motor using an improved hysteresis model. Journal of Applied Physics, 2012, 111, 07D119.	2.5	18
100	An overview of double power flow motor used in hybrid electrical vehicles. , 2011, , .		1
101	Dual-mode operations of new stator-permanent-magnet double salient flux memory motor drive. , 2011, , .		1
102	Development of a new two-rotor doubly salient permanent magnet motor for hybrid electric vehicles. , 2011, , .		3
103	Electromagnetic Performance Analysis of a New Stator-Permanent-Magnet Doubly Salient Flux Memory Motor Using a Piecewise-Linear Hysteresis Model. IEEE Transactions on Magnetics, 2011, 47, 1106-1109.	2.1	59
104	Design and Analysis of a New Flux Memory Doubly Salient Motor Capable of Online Flux Control. IEEE Transactions on Magnetics, 2011, 47, 3220-3223.	2.1	63
105	A integrated starter-generator based on flux memory machines for hybrid electric vehicles. , 2011, , .		1
106	Design of a new two-rotor doubly salient permanent magnet motor control system based on TMS320F28335. , 2011, , .		0
107	Modeling and simulation of a new two-rotor doubly salient permanent magnet machine. , 2011, , .		1
108	A novel magnetic-g geared doubly salient permanent magnet machine for low-speed high-torque applications. , 2011, , .		1

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109	Electromagnetic performance analysis of a new stator-permanent-magnet doubly salient flux memory motor using a piecewise-linear hysteresis model. , 2010, , .		0
110	The flux controllable permanent magnet brushless machines: Concepts, developments and applications. , 2009, , .		1