

Ruiwu Cao

List of Publications by Year in descending order

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citations

304368

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times ranked

927
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative Comparison of Flux-Switching Permanent-Magnet Motors With Interior Permanent Magnet Motor for EV, HEV, and PHEV Applications. IEEE Transactions on Magnetics, 2012, 48, 2374-2384.	1.2	291
2	Electric Drive System of Dual-Winding Fault-Tolerant Permanent-Magnet Motor for Aerospace Applications. IEEE Transactions on Industrial Electronics, 2015, 62, 7322-7330.	5.2	143
3	Modeling of a Complementary and Modular Linear Flux-Switching Permanent Magnet Motor for Urban Rail Transit Applications. IEEE Transactions on Energy Conversion, 2012, 27, 489-497.	3.7	131
4	Remedial Injected-Harmonic-Current Operation of Redundant Flux-Switching Permanent-Magnet Motor Drives. IEEE Transactions on Industrial Electronics, 2013, 60, 151-159.	5.2	127
5	Influence of Leading Design Parameters on the Force Performance of a Complementary and Modular Linear Flux-Switching Permanent-Magnet Motor. IEEE Transactions on Industrial Electronics, 2014, 61, 2165-2175.	5.2	109
6	Investigation and General Design Principle of a New Series of Complementary and Modular Linear FSPM Motors. IEEE Transactions on Industrial Electronics, 2013, 60, 5436-5446.	5.2	108
7	Comparison Between Linear Induction Motor and Linear Flux-Switching Permanent-Magnet Motor for Railway Transportation. IEEE Transactions on Industrial Electronics, 2019, 66, 9394-9405.	5.2	84
8	Speed Control of Complementary and Modular Linear Flux-Switching Permanent-Magnet Motor. IEEE Transactions on Industrial Electronics, 2015, 62, 4056-4064.	5.2	76
9	Quantitative Comparison of Linear Flux-Switching Permanent Magnet Motor With Linear Induction Motor for Electromagnetic Launch System. IEEE Transactions on Industrial Electronics, 2018, 65, 7569-7578.	5.2	67
10	A Linear Doubly Salient Permanent-Magnet Motor With Modular and Complementary Structure. IEEE Transactions on Magnetics, 2011, 47, 4809-4821.	1.2	58
11	Comparison of Complementary and Modular Linear Flux-Switching Motors With Different Mover and Stator Pole Pitch. IEEE Transactions on Magnetics, 2013, 49, 1493-1504.	1.2	50
12	Torque Improvement in Five-Phase Unequal Tooth SPM Machine by Injecting Third Harmonic Current. IEEE Transactions on Vehicular Technology, 2018, 67, 206-215.	3.9	40
13	A New Double-Sided Linear Flux-Switching Permanent Magnet Motor With Yokeless Mover for Electromagnetic Launch System. IEEE Transactions on Energy Conversion, 2019, 34, 680-690.	3.7	39
14	Sensorless Control of Linear Flux-Switching Permanent Magnet Motor Based on Extended Kalman Filter. IEEE Transactions on Industrial Electronics, 2020, 67, 5971-5979.	5.2	39
15	Design and Analysis of a New Fault-Tolerant Linear Permanent-Magnet Motor for Maglev Transportation Applications. IEEE Transactions on Applied Superconductivity, 2012, 22, 5200204-5200204.	1.1	36
16	EXPERIMENTAL COMPARISON OF REMEDIAL SINGLE-CHANNEL OPERATIONS FOR REDUNDANT FLUX-SWITCHING PERMANENT-MAGNET MOTOR DRIVE. Progress in Electromagnetics Research, 2012, 123, 189-204.	1.6	36
17	Analysis of a Dual-Winding Fault-Tolerant Permanent Magnet Machine Drive for Aerospace Applications. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	35
18	A Dual-Winding Fault-Tolerant Motor Drive System Based on the Redundancy Bridge Arm. IEEE Transactions on Industrial Electronics, 2019, 66, 654-662.	5.2	34

#	ARTICLE	IF	CITATIONS
19	MW-Class Stator Wound Field Flux-Switching Motor for Semidirect Drive Wind Power Generation System. IEEE Transactions on Industrial Electronics, 2019, 66, 795-805.	5.2	34
20	Multi-objective optimization of surface-mounted and interior permanent magnet synchronous motor based on Taguchi method and response surface method. Chinese Journal of Electrical Engineering, 2018, 4, 67-73.	2.3	30
21	Comparative Study of Permanent Magnet Assisted Linear Switched Reluctance Motor and Linear Flux Switching Permanent Magnet Motor for Railway Transportation. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-5.	1.1	28
22	Analysis of Linear Flux-Switching Permanent Magnet Motor Using Response Surface Methodology. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	25
23	A New Double-Sided HTS Flux-Switching Linear Motor With Series Magnet Circuit. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.1	20
24	Fault-tolerant drive system based on the redundancy bridge arm for aerospace applications. IET Electric Power Applications, 2018, 12, 780-786.	1.1	11
25	A double fed three-phase flux-switching linear motor with complementary magnet circuit for urban rail transit. , 2014, , .		9
26	Research on Detent Force Characteristics of a Linear Flux-Switching Permanent-Magnet Motor. IEEE Transactions on Energy Conversion, 2021, 36, 2998-3006.	3.7	9
27	Sliding-mode observer based sensorless vector control of LFSPM motor for long-distance drive system. IET Electric Power Applications, 2019, 13, 643-651.	1.1	8
28	A Stator-PM Resolver With Field Modulation Principle. IEEE Transactions on Energy Conversion, 2021, 36, 159-172.	3.7	8
29	A new modular and complementary double-sided linear flux-switching permanent magnet motor with yokeless secondary. , 2014, , .		7
30	Comparative Investigation of High Temperature Superconducting Linear Flux-Switching Motor and High Temperature Superconducting Linear Switched Reluctance Motor for Urban Railway Transit. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.1	7
31	A new double-sided primary wound field flux-switching linear motor. , 2015, , .		6
32	Investigation of High Temperature Superconducting Linear Flux-Switching Motors With Different Secondary Structures. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-5.	1.1	5
33	Open-circuit fault diagnosis of a dual-winding fault-tolerant permanent magnet motor drive for aerospace applications. , 2015, , .		4
34	Investigation of linear synchronous reluctance motor for urban rail transit. IET Electric Power Applications, 2020, 14, 41-51.	1.1	4
35	Minimum copper loss fault-tolerant control of redundant flux-switching permanent-magnet motors. , 2011, , .		3
36	New Double-Sided Wound Field Flux-Switching Linear Motor with Non-Overlapping Winding. , 2019, , .		3

#	ARTICLE	IF	CITATIONS
37	A Novel Two Degrees-of-Freedom Rotary-linear Flux-Switching Permanent Magnet Machine. , 2019, , .		3
38	Segmented power supply control of double-sided linear flux-switching permanent magnet motor. IET Electric Power Applications, 2020, 14, 101-108.	1.1	3
39	Reduction of Thrust Force Ripple of High Temperature Superconducting Linear Flux-Switching Motors using Asymmetry Mover Structure. IEEE Transactions on Applied Superconductivity, 2021, , 1-1.	1.1	3
40	Investigation On High Temperature Superconducting Linear Flux-Switching Motors With Different Mover and Stator Pole Pitch Ratios For Urban Railway Transit System. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.1	3
41	Speed control of double-sided linear flux-switching permanent magnet motor system for electromagnetic launch system. , 2017, , .		2
42	Coupled Electromagnetic-Thermal Analysis of a 130kW Interior-PM Machine for Electric Vehicles based on Field-Circuit Coupling Method. , 2019, , .		2
43	A Novel Double-Sided High Temperature Superconducting Linear Modular Flux-Switching Motor. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-10.	1.1	2
44	Thermal Analysis of a Hybride Excitation Flux-Switching Motor with Water-Cooling System. , 2021, , .		2
45	Closed-loop position control of complementary and modular linear flux-switching permanent magnet motor. , 2016, , .		1
46	Direct thrust control of complementary and modular linear flux-switching permanent magnet motor. , 2017, , .		1