

Jian-Xin Shen

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2228302/publications.pdf>

Version: 2024-02-01

62
papers

688
citations

933447

10
h-index

839539

18
g-index

62
all docs

62
docs citations

62
times ranked

579
citing authors

#	ARTICLE	IF	CITATIONS
1	A New Method for Reduction of Detent Force in Permanent Magnet Flux-Switching Linear Motors. IEEE Transactions on Magnetics, 2009, 45, 2843-2846.	2.1	121
2	A Modular Permanent-Magnet Flux-Switching Linear Machine With Fault-Tolerant Capability. IEEE Transactions on Magnetics, 2009, 45, 3179-3186.	2.1	105
3	Reduction of Rotor Eddy Current Loss in High Speed PM Brushless Machines by Grooving Retaining Sleeve. IEEE Transactions on Magnetics, 2013, 49, 3973-3976.	2.1	45
4	Investigation and Countermeasures for Demagnetization in Line Start Permanent Magnet Synchronous Motors. IEEE Transactions on Magnetics, 2013, 49, 4068-4071.	2.1	44
5	A Coaxial Magnetic Gear With Consequent-Pole Rotors. IEEE Transactions on Energy Conversion, 2017, 32, 267-275.	5.2	41
6	A Permanent Magnet Integrated Starter Generator for Electric Vehicle Onboard Range Extender Application. IEEE Transactions on Magnetics, 2012, 48, 1625-1628.	2.1	36
7	Permanent magnet flux switching machines — Topologies, analysis and optimization. , 2013, , .		28
8	A Shoe-Equipped Linear Generator for Energy Harvesting. IEEE Transactions on Industry Applications, 2013, 49, 990-996.	4.9	21
9	Analysis and Experiment Method of Influence of Retaining Sleeve Structures and Materials on Rotor Eddy Current Loss in High-Speed PM Motors. IEEE Transactions on Industry Applications, 2020, 56, 4889-4895.	4.9	21
10	Investigation of Torque Characteristics in a Novel Permanent Magnet Flux Switching Machine With an Outer-Rotor Configuration. IEEE Transactions on Magnetics, 2014, 50, 1-10.	2.1	14
11	Topologies and performance study of a variety of coaxial magnetic gears. IET Electric Power Applications, 2017, 11, 1160-1168.	1.8	14
12	Current Harmonics in Induction Machine With Closed-Slot Rotor. IEEE Transactions on Industry Applications, 2017, 53, 134-142.	4.9	11
13	Comparative study on permanent magnet synchronous generator systems with various power conversion topologies. , 2013, , .		10
14	A Simplified Method to Analyze Synchronous Reluctance Machine. , 2016, , .		10
15	DC Voltage Control of a Wide-Speed-Range Permanent-Magnet Synchronous Generator System for More Electric Aircraft Applications. , 2016, , .		10
16	Flux Observer Model for Sensorless Control of PM BLDC Motor With a Damper Cage. IEEE Transactions on Industry Applications, 2019, 55, 1272-1279.	4.9	10
17	Analysis of cogging torque in surface-mounted permanent magnet machines with segmented stators. , 2014, , .		9
18	Evaluation of low-cost high-performance synchronous motors for ventilation application. , 2015, , .		9

#	ARTICLE	IF	CITATIONS
19	Analysis of Synergistic Stator Permanent Magnet Machine With the Synergies of Flux-Switching and Flux-Reversal Effects. IEEE Transactions on Industrial Electronics, 2022, 69, 12237-12248.	7.9	9
20	Simulation and analysis of a variable speed permanent magnet synchronous generator with flux weakening control. , 2012, , .		8
21	Cogging torque and operation torque ripple reduction of interior permanent magnet synchronous machines by using asymmetric flux-barriers. , 2017, , .		8
22	Permanent Magnet Synchronous Reluctance Machines With Axially Combined Rotor Structure. IEEE Transactions on Magnetics, 2022, 58, 1-10.	2.1	8
23	A shoe-equipped linear generator for energy harvesting. , 2010, , .		7
24	Investigation of Rotor Eddy Current Loss in High-Speed PM Synchronous Motor with Various PWM Strategies. , 2020, , .		7
25	Hybrid motor control application with moving average based low-pass filter and high-pass filter. , 2014, , .		6
26	Analytical Calculation of Magnetic Field Distribution in Magnetic Gears with Consequent-Pole Rotors by Subdomain Method. , 2016, , .		6
27	Research on conducted EMI and vibration characteristics of PM BLDC motors with different stator structures. , 2011, , .		5
28	Thermal modeling of a BLDC motor for a kick scooter. , 2012, , .		5
29	Permanent magnet synchronous generators with various designs and control strategies. , 2013, , .		4
30	Research of the influence of different PWM inverters on the iron losses for induction motors. , 2014, , .		4
31	Influence of mechanical parameters on power efficiency of induction motors. , 2014, , .		3
32	Investigation of Decoupled PWM Strategy for a Three-Phase Open-End Winding Permanent Magnet Synchronous Motor Using a Five-Leg Inverter. , 2016, , .		3
33	Torque characteristics in a large permanent magnet synchronous generator with stator radial ventilating air ducts. Frontiers of Information Technology and Electronic Engineering, 2016, 17, 814-824.	2.6	3
34	Investigation on torque ripple of synchronous reluctance machine with square-wave drive. , 2017, , .		3
35	Extra end effect of axially segmented stator core of high speed high power permanent magnet electric machines. , 2017, , .		3
36	Experimental Investigation of Rotor Eddy Current Loss in High-Speed PM Brushless DC Motors. , 2018, , .		3

#	ARTICLE	IF	CITATIONS
37	Investigation of Various Rotor Retaining Sleeve Structures in High-Speed PM Brushless Motors. , 2018, , .		3
38	Active Saturation Method for Rotor Magnetic Bridges in Synchronous Reluctance Machines. , 2018, , .		3
39	Theory of symmetric winding distributions and a general method for winding MMF harmonic analysis. IET Electric Power Applications, 2020, 14, 2587-2597.	1.8	3
40	Optimal design of a linear induction motor for woodworking machine application. , 2014, , .		2
41	Analysis of iron loss in interlocked lamination core. , 2015, , .		2
42	Design of a temperature transmitter with contactless power and data transmission. , 2017, , .		2
43	Measurement of Proximity Losses in Litz Wires. , 2018, , .		2
44	Improvement of Steinmetzâ€™s Parameters Fitting Formula for Ferrite Soft Magnetic Materials. , 2018, , .		2
45	Radial electromagnetic force and vibration in synchronous reluctance motors with asymmetric rotor structures. IET Electric Power Applications, 2021, 15, 1125-1137.	1.8	2
46	Split ratio optimisation of high-speed permanent magnet synchronous motor with multi-physics constraints. IET Electric Power Applications, 2020, 14, 2450-2461.	1.8	2
47	Comparative Analysis of Magnet Demagnetization in FSCW and ISDW IPM Machines with Various Rotor Topologies. , 2020, , .		2
48	Low speed servo system with second-order sliding mode algorithm. , 2012, , .		1
49	Direct voltage control strategies for variable-speed permanent magnet synchronous generator system. , 2015, , .		1
50	A DC link switch-based common mode voltage reduction scheme in PWM inverter drives. , 2015, , .		1
51	Current harmonics in induction machine with closed-slot rotor. , 2015, , .		1
52	A robust magnetic polarity self-sensing method for start-up of PM synchronous machine in fan-like system. , 2016, , .		1
53	Optimal design and vector control of an interior ferrite permanent magnet synchronous motor. , 2017, , .		1
54	Demagnetization Analysis and Optimization Design of Interior Permanent Magnet Synchronous Motor. , 2020, , .		1

#	ARTICLE	IF	CITATIONS
55	Study on High-Speed Permanent Magnet Synchronous Motor with Large Airgap for Electrically Assisted Turbocharger. , 2021, , .		1
56	Generalized Analysis of Armature Windings MMF Harmonics. , 2021, , .		1
57	Optimal design of an axial flux permanent magnet motor. , 2014, , .		0
58	Direct voltage field-oriented control for permanent-magnet synchronous generator systems with active rectifier. , 2016, , .		0
59	Dual-inverter counteracting PWM schemes for iron loss reduction in twin-coil induction motors. , 2017, , .		0
60	Performance improvement of a linear permanent magnet gear. , 2017, , .		0
61	Modular Multilevel Converter-Based PWM Rectifier System for High Speed or High Frequency Permanent Magnet Synchronous Generators. , 2018, , .		0
62	Feature Investigation of a Segmented Pole Quasi- <i>Halbach</i> Tubular-Linear Synchronous Machine. IEEE Access, 2022, 10, 11248-11259.	4.2	0