

Abolfazl Vahedi

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5560869/publications.pdf>

Version: 2024-02-01

89
papers

1,101
citations

516710

16
h-index

477307

29
g-index

89
all docs

89
docs citations

89
times ranked

934
citing authors

#	ARTICLE	IF	CITATIONS
1	Modified Halbach design for torque profile improvement in a permanent magnet synchronous motor dedicated to an electric city bus. IET Electric Power Applications, 2022, 16, 1410-1425.	1.8	3
2	Design and Analysis of Interior Permanent Magnet Motor for Electric Vehicle Application Considering Irreversible Demagnetization. IEEE Transactions on Industry Applications, 2022, 58, 284-293.	4.9	13
3	A Modified Permanent Magnet-Assisted Synchronous Reluctance Motor Design for Torque Characteristics Improvement. IEEE Transactions on Energy Conversion, 2022, 37, 989-998.	5.2	17
4	Diagnosis of Moisture Content in Oil-Paper Bushings Using Statistical Indicators Based on Frequency Domain Spectroscopy. Smart Innovation, Systems and Technologies, 2022, , 287-298.	0.6	2
5	A continuous control set of the model predictive controller of PMA-SynRM machine for high-performance flywheel energy storage system. International Journal of Dynamics and Control, 2022, 10, 1553-1566.	2.5	2
6	Electrical machines surrogate-based design optimization based on novel waveform targeting strategy with improvement of the computational efficiency. IET Electric Power Applications, 2022, 16, 1286-1299.	1.8	1
7	ANN-based optimization approach devoted to the sizing of arbitrary rotor pole geometries of permanent magnet motors for electric motorcycle. International Journal of Applied Electromagnetics and Mechanics, 2021, 64, S155-S166.	0.6	0
8	Robust Design of BLDC Motor for Jetboard Application. , 2021, , .		0
9	Sensitivity-Based Optimization of Interior Permanent Magnet Synchronous Motor for Torque Characteristic Enhancement. Energies, 2021, 14, 2240.	3.1	3
10	Transient stability improvement based on out-of-step prediction. Electric Power Systems Research, 2021, 194, 107108.	3.6	2
11	A dynamic model for the investigation of twisting effect in long flux-switching <sc>PM</sc> motors in <sc>ESPs</sc>. International Transactions on Electrical Energy Systems, 2021, 31, e13235.	1.9	1
12	Irreversible demagnetization analysis of RWAFPM motor using modified MEC algorithm. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2020, 39, 1227-1239.	0.9	3
13	Torque characteristics enhancement of ring winding axial flux permanent magnet generator for direct-drive wind turbine. IET Electric Power Applications, 2020, 14, 1584-1591.	1.8	11
14	Online synchronous generator out-of-step prediction by electrical power curve fitting. IET Generation, Transmission and Distribution, 2020, 14, 1169-1176.	2.5	12
15	Sensitivity analysis and <sc>multiobjective</sc> design optimization of flux switching permanent magnet motor using <sc>MLP&ANN</sc> modeling and <sc>NSGA-II</sc> algorithm. International Transactions on Electrical Energy Systems, 2020, 30, e12511.	1.9	9
16	Average value modeling of six-pulse diode rectifier considering unbalance conditions in supply voltage and impedance. International Transactions on Electrical Energy Systems, 2020, 30, e12216.	1.9	0
17	Diagnosis of brushless synchronous generator using numerical modeling. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2020, 39, 1241-1254.	0.9	0
18	Machine-learning approach for fault detection in brushless synchronous generator using vibration signals. IET Science, Measurement and Technology, 2019, 13, 852-861.	1.6	18

#	ARTICLE	IF	CITATIONS
19	Shaft twisting effect on steady state performance of flux switching motor with long rotor. International Journal of Applied Electromagnetics and Mechanics, 2019, 61, 315-327.	0.6	2
20	Optimization of Geometry and Dimensions of Magnetic Switch Core with Approach of Flux Density Uniformity. , 2019, , .		3
21	Torque Profile Improvement of a Synchronous Reluctance Motor through Optimizing the Rotor Flux Barriers Ends. , 2019, , .		2
22	Demagnetization Fault Diagnosis of FSPM Motor Based on ReliefF and SVM. , 2019, , .		3
23	Position Sensor Error Analysis for PMa-SynR Motor Drive system. , 2019, , .		2
24	Review of model predictive control strategies for matrix converters. IET Power Electronics, 2019, 12, 3021-3032.	2.1	45
25	Specification and Design of Ring Winding Axial Flux Motor for Rim-Driven Thruster of Ship Electric Propulsion. IEEE Transactions on Vehicular Technology, 2019, 68, 1318-1326.	6.3	34
26	Optimal Sizing of Permanent Magnets with Non-Conventional Geometries in Synchronous Machines. , 2019, , .		0
27	Investigation of start-up conditions on electric submersible pump driven with flux switching motor. Turkish Journal of Electrical Engineering and Computer Sciences, 2019, 27, 3967-3979.	1.4	0
28	Magnetic equivalent circuit modelling of ring winding axial flux machine. IET Electric Power Applications, 2018, 12, 293-300.	1.8	15
29	Simple boost control of a new high voltage gain Z-source inverter. , 2018, , .		3
30	A Conservative Approach for Investigation of Transient Overvoltage Acceptability in Customersâ€™ Terminals by Considering Voltage Vulnerability Curves of Customers. IEEE Transactions on Energy Conversion, 2018, 33, 1590-1593.	5.2	2
31	A new outer-rotor flux switching permanent magnet generator for wind farm applications. Wind Energy, 2017, 20, 3-17.	4.2	19
32	Design Optimization of Transversely Laminated Synchronous Reluctance Machine for Flywheel Energy Storage System Using Response Surface Methodology. IEEE Transactions on Industrial Electronics, 2017, 64, 9748-9757.	7.9	42
33	Minimisation of torque ripple in slotless axial flux BLDC motors in terms of design considerations. IET Electric Power Applications, 2017, 11, 1124-1130.	1.8	14
34	An AHP-based approach for design optimization of flux-switching permanent magnet generator for wind turbine applications. International Transactions on Electrical Energy Systems, 2016, 26, 1318-1338.	1.9	13
35	Sensitivity analysis to improve the design process of an induction motor using MEC. , 2016, , .		2
36	Performance of insulation materials to enhance grading method effect in high voltage cable. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
37	Comparing the effect of using new hysteresis material on the performance of a hysteresis motor. , 2016, , .		0
38	Analytical modeling of hybrid electromagnetic excited linear synchronous motor. , 2016, , .		2
39	Rotary diode failure detection in brushless exciter system of power plant synchronous generator. , 2016, , .		14
40	Optimal design of permanent magnet flux switching generator for wind applications via artificial neural network and multi-objective particle swarm optimization hybrid approach. Energy Conversion and Management, 2016, 110, 230-239.	9.2	35
41	Determination of Wound Core Transformer Losses and Temperature Rise. EPE Journal (European) Tj ETQq1 1 0.784314 rgBT 1/Overlock 1	0.7	1
42	An Improved AHP Method for Multi-Objective Design of FSPM Machine for Wind Farm Applications. Journal of Intelligent and Fuzzy Systems, 2015, 30, 159-169.	1.4	9
43	Sensitivity analysis and optimum design for the stator of synchronous reluctance machines using the coupled finite element and Taguchi methods. Turkish Journal of Electrical Engineering and Computer Sciences, 2015, 23, 38-51.	1.4	4
44	Design of a Wound Core Pulse Transformer Using Multiobjective Optimization Method. IEEE Transactions on Plasma Science, 2015, 43, 857-863.	1.3	3
45	An Analytical Approach to Eccentricity in Axial Flux Permanent Magnet Synchronous Generators for Wind Turbines. Electric Power Components and Systems, 2015, 43, 1039-1050.	1.8	25
46	An Online Method for Static Eccentricity Fault Detection in Axial Flux Machines. IEEE Transactions on Industrial Electronics, 2015, 62, 1931-1942.	7.9	59
47	Study on interior permanent magnet synchronous motors for hybrid electric vehicle traction drive application considering permanent magnet type and temperature. Turkish Journal of Electrical Engineering and Computer Sciences, 2014, 22, 1517-1527.	1.4	8
48	Sensitivity analysis of 6–19 pole outer rotor configuration of FSPM generator for wind turbine application. , 2014, , .		4
49	Detecting and locating turn to turn Fault on layer winding of distribution transformer. , 2014, , .		2
50	An online eccentricity fault detection method for Axial Flux machines. , 2014, , .		1
51	Torque ripple reduction by multi-layering technique in an interior permanent magnet motor used in hybrid electric vehicle. , 2014, , .		0
52	Design study of FSPM generator with novel outer rotor configuration for small wind turbine application. , 2014, , .		14
53	Modeling and improvement of direct power control of DFIG under unbalanced grid voltage condition. International Journal of Electrical Power and Energy Systems, 2014, 59, 58-65.	5.5	21
54	Calculation of Parasitic Elements in Toroidal Core Transformers. IEEE Transactions on Plasma Science, 2014, 42, 1690-1696.	1.3	11

#	ARTICLE	IF	CITATIONS
55	Second-Order Sliding Mode Control of a Smart Inverter for Renewable Energy System. International Review of Electrical Engineering, 2014, 9, 1090.	0.2	5
56	An experimental approach for investigating low-level interturn winding faults in power transformers. Electrical Engineering, 2013, 95, 135-145.	2.0	11
57	Analysis of internal winding short circuit faults in power transformers using transient finite element method coupling with external circuit equations. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2013, 26, 425-442.	1.9	6
58	A survey of shaft voltage reduction strategies for induction generators in wind energy applications. Renewable Energy, 2013, 50, 177-187.	8.9	23
59	Static Eccentricity Fault Detection in Single-Stator Single-Rotor Axial-Flux Permanent-Magnet Machines. IEEE Transactions on Industry Applications, 2012, 48, 1838-1845.	4.9	53
60	Optimized Design of PM Torquer for Dynamically Tuned Gyroscope. IEEE Transactions on Industry Applications, 2012, 48, 2268-2276.	4.9	4
61	Voltage quality improvement in islanded microgrids supplying nonlinear loads. , 2012, , .		7
62	A novel direct power control strategy for integrated DFIG/active filter system. , 2012, , .		3
63	Effect of static eccentricity in back-EMF of Axial Flux Permanent Magnet Machines. , 2012, , .		6
64	Sweep frequency response analysis for diagnosis of low level short circuit faults on the windings of power transformers: An experimental study. International Journal of Electrical Power and Energy Systems, 2012, 42, 78-90.	5.5	59
65	Effect of Inclined Static Eccentricity Fault in Single Stator-Single Rotor Axial Flux Permanent Magnet Machines. IEEE Transactions on Magnetics, 2012, 48, 143-149.	2.1	72
66	A DWT-based approach for detection of interturn faults in power transformers. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2011, 30, 483-504.	0.9	8
67	Common mode voltage reduction with a modified hysteresis current control strategy. , 2011, , .		0
68	Diagnosing Shorted Turns on the Windings of Power Transformers Based Upon Online FRA Using Capacitive and Inductive Couplings. IEEE Transactions on Power Delivery, 2011, 26, 2123-2133.	4.3	111
69	A common-mode voltage reduction strategy for a DFIG with a three-level back-to-back converter. , 2011, , .		8
70	Online monitoring of power transformers for detection of internal winding short circuit faults using negative sequence analysis. European Transactions on Electrical Power, 2011, 21, 196-211.	1.0	27
71	Study on Axial Flux Hysteresis Motors Considering Airgap Variation. Journal of Electromagnetic Analysis and Applications, 2010, 02, 252-257.	0.2	5
72	Effect of Air gap variation on characteristics of an Axial flux hysteresis motor. , 2010, , .		1

#	ARTICLE	IF	CITATIONS
73	Effects of static eccentricity in axial flux permanent magnet machines. , 2010, , .		7
74	Low-cost sensorless control of four-switch, brushless DC motor drive with direct back-EMF detection. Journal of Zhejiang University: Science A, 2009, 10, 201-208.	2.4	10
75	Performance investigation of Direct Power Control method in Current Source Rectifier under different operation conditions. , 2008, , .		2
76	Sensorless direct power control of current source rectifier based on virtual flux. , 2008, , .		2
77	A Novel Position Sensorless Control of a Four-Switch, Brushless DC Motor Drive Without Phase Shifter. IEEE Transactions on Power Electronics, 2008, 23, 3079-3087.	7.9	59
78	Permanent Magnet DC Linear Motor for Aircraft Electromagnetic Launcher. , 2008, , .		3
79	Design Optimization of Reluctance Synchronous Linear Machines for Electromagnetic Aircraft Launch System. , 2008, , .		2
80	Improved switching table for direct power control of three-phase PWM rectifier. , 2007, , .		45
81	Transient analysis of induction generator jointed to network at balanced and unbalanced short circuit faults. , 2007, , .		1
82	Induction motor load generator system using direct torque control method. , 2007, , .		2
83	Implementation of Four-Switch Brushless DC Motor Drive based on TMS320LF2407 DSP. , 2007, , .		9
84	A novel sensorless control method for four-switch, brushless DC motor drive without using any 30° phase shifter. , 2007, , .		8
85	Torque control of brushless DC motor drive based on DSP technology. , 2007, , .		3
86	Analysis and Control of Commutation Torque Ripple in Four-Switch, Three-Phase Brushless DC Motor Drive. , 2006, , .		11
87	Minimizing the torque ripple of variable capacitance electrostatic micromotors. Journal of Electrostatics, 2006, 64, 361-367.	1.9	10
88	ANFIS-Based Controller with Fuzzy Supervisory Learning for Speed Control of 4-Switch Inverter Brushless DC Motor Drive. , 0, , .		4
89	Analysis of Commutation Torque Ripple in Three-Phase, Four-Switch Brushless DC (BLDC) Motor Drives. , 0, , .		3