

Dahaman Ishak

List of Publications by Year in descending order

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Version: 2024-02-01

111
papers

1,991
citations

331670

21
h-index

265206

42
g-index

116
all docs

116
docs citations

116
times ranked

1660
citing authors

#	ARTICLE	IF	CITATIONS
1	Eddy-current loss in the rotor magnets of permanent-magnet brushless machines having a fractional number of slots per pole. IEEE Transactions on Magnetics, 2005, 41, 2462-2469.	2.1	281
2	Comparison of PM Brushless Motors, Having Either All Teeth or Alternate Teeth Wound. IEEE Transactions on Energy Conversion, 2006, 21, 95-103.	5.2	201
3	Unbalanced Magnetic Forces in Permanent-Magnet Brushless Machines With Diametrically Asymmetric Phase Windings. IEEE Transactions on Industry Applications, 2007, 43, 1544-1553.	4.9	182
4	Fault Detection and Diagnosis of Induction Motors Using Motor Current Signature Analysis and a Hybrid FMMâ€“CART Model. IEEE Transactions on Neural Networks and Learning Systems, 2012, 23, 97-108.	11.3	154
5	Impacts of Demand-Side Management on Electrical Power Systems: A Review. Energies, 2018, 11, 1050.	3.1	141
6	Review of Multilevel Inverters for PV Energy System Applications. Energies, 2021, 14, 1585.	3.1	103
7	Hybrid energy sources status of Pakistan: An optimal technical proposal to solve the power crises issues. Energy Strategy Reviews, 2019, 24, 132-153.	7.3	56
8	Three-Phase Series Resonant DC-DC Boost Converter With Double LLC Resonant Tanks and Variable Frequency Control. IEEE Access, 2020, 8, 22386-22399.	4.2	48
9	Analysis of cogging torque in brushless Machines having nonuniformly distributed stator slots and stepped rotor magnets. IEEE Transactions on Magnetics, 2005, 41, 3910-3912.	2.1	47
10	Single-Phase Simplified Split-Source Inverter ($S^{3/3}$) for Boost DCâ€“AC Power Conversion. IEEE Transactions on Industrial Electronics, 2019, 66, 7643-7652.	7.9	47
11	Offline and online fault detection and diagnosis of induction motors using a hybrid soft computing model. Applied Soft Computing Journal, 2013, 13, 4493-4507.	7.2	42
12	A semi-automatic approach for thermographic inspection of electrical installations within buildings. Energy and Buildings, 2012, 55, 585-591.	6.7	40
13	State-of-Charge Balancing Control for ON/OFF-Line Internal Cells Using Hybrid Modular Multi-Level Converter and Parallel Modular Dual L-Bridge in a Grid-Scale Battery Energy Storage System. IEEE Access, 2019, 7, 131-147.	4.2	39
14	Technical review of wind energy potential as small-scale power generation sources in Penang Island Malaysia. Renewable and Sustainable Energy Reviews, 2012, 16, 3034-3042.	16.4	36
15	A Comprehensive Analytical Subdomain Model and Its Field Solutions for Surface-Mounted Permanent Magnet Machines. IEEE Transactions on Magnetics, 2015, 51, 1-14.	2.1	36
16	Impact of Demand-Side Management on the Reliability of Generation Systems. Energies, 2018, 11, 2155.	3.1	34
17	A Review on State-of-the-Art Power Converters: Bidirectional, Resonant, Multilevel Converters and Their Derivatives. Applied Sciences (Switzerland), 2021, 11, 10172.	2.5	27
18	Multilevel inverter with improved basic unit structure for symmetric and asymmetric source configuration. IET Power Electronics, 2020, 13, 1445-1455.	2.1	26

#	ARTICLE	IF	CITATIONS
19	Modeling and simulation of deadbeat-based PI controller in a single-phase H-bridge inverter for stand-alone applications. Turkish Journal of Electrical Engineering and Computer Sciences, 2014, 22, 43-56.	1.4	24
20	PWM Switching Strategy for Torque Ripple Minimization in BLDC Motor. Journal of Electrical Engineering, 2011, 62, 141-146.	0.7	23
21	Application of the fuzzy min-max neural network to fault detection and diagnosis of induction motors. Neural Computing and Applications, 2013, 23, 191-200.	5.6	22
22	Wind Power Integration: An Experimental Investigation for Powering Local Communities. Energies, 2019, 12, 621.	3.1	21
23	Predictive control of plug-in electric vehicle chargers with photovoltaic integration. Journal of Modern Power Systems and Clean Energy, 2018, 6, 1264-1276.	5.4	17
24	A speed sensorless field oriented control of parallel- connected dual PMSM. , 2011, , .		15
25	A comparative study of PI, fuzzy and hybrid PI-Fuzzy controller for speed control of brushless dc motor drive. , 2011, , .		14
26	An asymmetrical multilevel inverter with optimum number of components based on new basic structure for photovoltaic renewable energy system. Solar Energy, 2020, 204, 13-25.	6.1	14
27	Asymmetrical Multi-level DC-link Inverter for PV Energy System with Perturb and Observe Based Voltage Regulator and Capacitor Compensator. Journal of Modern Power Systems and Clean Energy, 2021, 9, 199-209.	5.4	14
28	Study on the electromagnetic force affected by short-circuit current in vertical and horizontal arrangement of busbar system. , 2011, , .		13
29	Resonant Power Converters for Renewable Energy Applications: A Comprehensive Review. Frontiers in Energy Research, 2022, 10, .	2.3	13
30	A new scheme sensorless control of BLDC motor using software PLL and third harmonic back-emf. , 2009, , .		12
31	Implementation of PWM control strategy for torque ripples reduction in brushless DC motors. Electrical Engineering, 2015, 97, 239-250.	2.0	12
32	Modified Levy Flight Optimization for a Maximum Power Point Tracking Algorithm under Partial Shading. Applied Sciences (Switzerland), 2021, 11, 992.	2.5	11
33	Design and experimental evaluation of a single-stage AC/DC converter with PFC and hybrid full-bridge rectifier. Engineering Science and Technology, an International Journal, 2018, 21, 189-200.	3.2	10
34	Improved topology of three-phase series resonant DC-DC boost converter with variable frequency control. AEJ - Alexandria Engineering Journal, 2022, 61, 1701-1713.	6.4	10
35	Cell Balancing Topologies in Battery Energy Storage Systems: A Review. Lecture Notes in Electrical Engineering, 2019, , 159-165.	0.4	9
36	Finite element modeling and analysis of external rotor brushless DC motor for electric bicycle. , 2009, , .		8

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37	An LVRT Scheme for Grid Connected DFIG Based WECS Using State Feedback Linearization Control Technique. Electronics (Switzerland), 2019, 8, 777.	3.1	8
38	Design and Analysis of Five-level cascaded LLC Resonant Converter. , 2020, , .		8
39	Multiobjective design of permanent magnet synchronous machines based on analytical sub-domain particle swarm optimization. , 2017, , .		7
40	State-of-Charge Balancing Control for Optimal Cell Utilisation of a Grid-Scale Three-Phase Battery Energy Storage System Using Hybrid Modular Multilevel Converter Topology Without Redundant Cells. IEEE Access, 2021, 9, 53920-53935.	4.2	7
41	Novel MPPT Control in Permanent Magnet Synchronous Generator System for Battery Energy Storage. Applied Mechanics and Materials, 0, 110-116, 5179-5183.	0.2	6
42	Temperature rise prediction in 3-phase busbar system at 20&#x00B0;C ambient temperature. , 2012, , .		6
43	Speed- sensorless control of parallel- connected PMSM fed by a single inverter using MRAS. , 2012, , .		6
44	High voltage magnetic pulse generation using capacitor discharge technique. AEJ - Alexandria Engineering Journal, 2014, 53, 803-808.	6.4	6
45	Complete subdomain model for surface-mounted permanent magnet machines. , 2014, , .		6
46	Design Methodology and Analysis of Five-Level LLC Resonant Converter for Battery Chargers. Sustainability, 2022, 14, 8255.	3.2	6
47	Influence of slot number and pole number in fault-tolerant brushless dc motors having unequal tooth widths. Journal of Applied Physics, 2005, 97, 10Q509.	2.5	5
48	Analytical modeling of permanent magnet excited brushed DC motor for low-cost applications. , 2008, , .		5
49	Deadbeat-based PI controller for stand-alone single-phase voltage source inverter using battery cell as primary sources. , 2011, , .		5
50	Improved torque in PM brushless motors with minimum difference in slot number and pole number. International Journal of Power and Energy Conversion, 2012, 3, 206.	0.3	5
51	Influence of magnet pole arc variation on the performance of external rotor permanent magnet synchronous machine based on finite element analysis. , 2016, , .		5
52	Optimization of surface-mounted permanent magnet brushless AC motor using analytical model and differential evolution algorithm. Journal of Electrical Engineering, 2019, 70, 208-217.	0.7	5
53	Permanent magnet brushless machines with minimum difference in slot number and pole number. , 2008, , .		4
54	Application of Proteus VSM in modelling brushless DC motor drives. , 2011, , .		4

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55	Implementation of Sugeno FIS in model reference adaptive system adaptation scheme for speed sensorless control of PMSM. , 2014, , .		4
56	Full-bridge LLC Resonant High-voltage DCâ€“DC Converter with Hybrid Symmetrical Voltage Multiplier. IETE Journal of Research, 2021, 67, 687-698.	2.6	4
57	Development of PM brushless DC motor drive system for underwater applications. , 2009, , .		3
58	AC magnetization characteristics for soft magnetic materials using LabView. , 2009, , .		3
59	Rotating analysis of 18-slot/16-pole Permanent Magnet Synchronous Motor for Light Electric Vehicle using FEM. , 2012, , .		3
60	Construction of partial discharge measurement system under influence of cylindrical metal particle in transformer oil. , 2016, , .		3
61	LLC Resonant Converter Based Incremental Conductance Maximum Power Point Tracking System for PV Applications. Lecture Notes in Electrical Engineering, 2017, , 791-797.	0.4	3
62	Comparison of partial discharge behavior in mineral oil and PFAE under influence of spherical metal particle. , 2017, , .		3
63	Effect of ZnO Nanofiller in the XLPE Matrix on Electrical Tree Characteristics. IEEE Access, 2020, 8, 117574-117581.	4.2	3
64	Investigation the optimum performance of the surface-mounted PMSM under different magnetization patterns. Journal of Physics: Conference Series, 2020, 1432, 012005.	0.4	3
65	ANALYTICAL METHOD USING VIRTUAL PM BLOCKS TO REPRESENT MAGNET SEGMENTATIONS IN SURFACE-MOUNTED PM SYNCHRONOUS MACHINES. Progress in Electromagnetics Research B, 2017, 76, 23-36.	1.0	3
66	A Single-Phase Multilevel Inverter with Reduced Switch Count for Solar PV Application. , 2021, , .		3
67	An Improved Control Strategy for Single-Phase Single-Stage Grid-Tied PV System Based on Incremental Conductance MPPT, Modified PQ Theory, and Hysteresis Current Control. Engineering Proceedings, 2021, 12, 91.	0.4	3
68	Improved BLDC motor performance with digitally filtering back-EMF using dsPIC30F microcontroller. , 2009, , .		2
69	Improved speed operation of sensorless BLDC motor drives using IIR digital filter. , 2010, , .		2
70	Rotor fault diagnosis based on current signatures in squirrel-cage induction motor. , 2010, , .		2
71	Investigation of electromagnetic force during short-circuit test in three-phase busbar system. , 2011, , .		2
72	Detection and Diagnosis of Broken Rotor Bars in Induction Motors Using the Fuzzy Min-Max Neural Network. International Journal of Natural Computing Research, 2012, 3, 44-55.	0.5	2

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73	Cost-effective microcontroller-based hardware-in-the-loop test equipment for testing vehicle instrument panel. , 2017, , .		2
74	Partial discharge characteristics of spherical metal particle in mineral oil and PFAE under AC voltage. , 2017, , .		2
75	Optimization of double stator PMSM with different slot number in inner and outer stators using genetic algorithm. International Journal of Power Electronics and Drive Systems, 2021, 12, 726.	0.6	2
76	Adopting Hardware-In-the-Loop for Testing Vehicle Instrument Panel using Economical Approach. Indonesian Journal of Electrical Engineering and Computer Science, 2018, 10, 50.	0.8	2
77	Comparative evaluation of multilevel DC link inverter using symmetrical and asymmetrical DC sources. Journal of Electrical Engineering, 2019, 70, 122-129.	0.7	2
78	Optimal cell utilisation with state-of-charge balancing control in a grid-scale three-phase battery energy storage system: An experimental validation. AEJ - Alexandria Engineering Journal, 2022, 61, 9043-9059.	6.4	2
79	Cascaded Multi-Level Inverter for Battery Charging-Discharging using Buck-Boost Switch. , 2021, , .		2
80	Analytical Subdomain Model for Double-Stator Permanent Magnet Synchronous Machine with Surface-Mounted Radial Magnetization. , 2021, 12, .		2
81	Design and testing of a dual-mode mechanical drive. , 2008, , .		1
82	Comparison between Takagi Sugeno FIS and PI Controller: An Adaptation Scheme of MRAS for Speed Sensorless Control of PMSM. Applied Mechanics and Materials, 0, 785, 193-197.	0.2	1
83	A highly efficient single-phase sine-wave inverter with single-switch high-frequency modulation. IEEJ Transactions on Electrical and Electronic Engineering, 2017, 12, 936-941.	1.4	1
84	Permanent Magnet Motor Applications for Green Technology in Malaysia. , 2017, , .		1
85	Multi Objective Optimization of DG Allocation and Sizing in Distribution Systems Using Non-dominated Sorting Genetic Algorithm II. Lecture Notes in Electrical Engineering, 2019, , 277-284.	0.4	1
86	Four Coil Wireless Power Transfer System Using Magnetic Resonance Coupling. Lecture Notes in Electrical Engineering, 2019, , 179-184.	0.4	1
87	Electrical Treeing Characteristics of XLPE Material Containing Treated ZnO Nano-Filler. Lecture Notes in Electrical Engineering, 2019, , 305-311.	0.4	1
88	A Hybrid FMM-CART Model for Fault Detection and Diagnosis of Induction Motors. Lecture Notes in Computer Science, 2011, , 730-736.	1.3	1
89	Wind Energy Potential Assessment and Mapping Through Various Distribution Techniques: an Experimental Investigation for Wind Zone. International Journal on Energy Conversion, 2019, 7, 29.	0.1	1
90	Comparative Analysis of Rectangular and Circular Four-resonator Coil System for Wireless Power Transfer Using Magnetic Resonance Coupling Technique. European Journal of Electrical Engineering, 2019, 21, 67-73.	0.3	1

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91	Speed Sensorless Vector Control of a PMSM Using MRAS based on Sugeno Fuzzy Inference System Adaptation Mechanism. <i>Journal of Advanced Research in Dynamical and Control Systems</i> , 2019, 11, 637-645.	0.2	1
92	GA Optimization for Regression Modeling of Electromagnetic Performances Predicted by a Subdomain Model for SMPMSM in an Electric Vehicle. <i>Engineering Proceedings</i> , 2022, 12, .	0.4	1
93	A maximum power point tracking based on levy flight optimization. <i>International Journal of Power Electronics and Drive Systems</i> , 2020, 11, 1499.	0.6	1
94	Optimization Design of the Electromagnetic Torque for Surface-Mounted PMSM using GA and Finite Element Analysis for Electric Vehicle. , 2021, , .		1
95	Phase-Shifted LLC Resonant DC-DC Converter for Battery Charging Application. , 2021, , .		1
96	Design and Optimization of Electromagnetic Torque for a Surface-Mounted PMSM by using Subdomain Model and GA in Electric Vehicle Application. , 2021, , .		1
97	Asymmetrical Multilevel Inverter-Based PV System with Voltage Feedback Control: An Experimental Validation. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 3581.	2.5	1
98	New In-Wheel Electric Motor Design for Small Electric Vehicle Using Opera2D. <i>Applied Mechanics and Materials</i> , 0, 165, 38-42.	0.2	0
99	A Cost-Competitive Twin Programmable Microcontroller-based Digital Potentiometer for Low Range Resistance Application in Automotive Testing. , 2018, , .		0
100	Grid-Connected PV Generator Using Three-Phase VSC with Model Predictive Control. <i>Lecture Notes in Electrical Engineering</i> , 2019, , 173-178.	0.4	0
101	Improved Topology of Symmetrical Multilevel Inverter With Reduced Number of Switching Devices. , 2019, , .		0
102	A Novel Five Switches Single Phase Full-Bridge Voltage Source Inverter. <i>Lecture Notes in Electrical Engineering</i> , 2017, , 769-775.	0.4	0
103	A Novel Bidirectional Two-Stage Inverter Based UPS System. <i>Lecture Notes in Electrical Engineering</i> , 2017, , 835-841.	0.4	0
104	Fourier decomposition of segmented magnets with radial magnetization in surface-mounted PM machines. <i>Journal of Electrical Engineering</i> , 2017, 68, 470-475.	0.7	0
105	Model Predictive Control of Off-board PEV Charger. <i>Lecture Notes in Electrical Engineering</i> , 2019, , 167-172.	0.4	0
106	Design and fault tolerant analysis of five-phase permanent magnet synchronous motor. <i>Indonesian Journal of Electrical Engineering and Computer Science</i> , 2019, 16, 1115.	0.8	0
107	Optimal Design of SMPMSM Using SD-model based on Genetic Algorithm. , 2021, , .		0
108	New Level Increasing Technique for Symmetrical Multilevel Inverter with Reduced Number of Components and Total Standing Voltage. <i>Lecture Notes in Electrical Engineering</i> , 2022, , 432-438.	0.4	0

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109	Analytical Subdomain Model for Double-Stator Permanent Magnet Synchronous Machine. Lecture Notes in Electrical Engineering, 2022, , 578-584.	0.4	0
110	Model Predictive Control of Single-Phase Simplified Split-Source Inverter. Lecture Notes in Electrical Engineering, 2022, , 216-221.	0.4	0
111	Modified Five-level Inverter for PV Energy system with Reduced Switch Count. , 2021, , .		0