

Rukmi Dutta

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

77
papers

752
citations

13
h-index

24
g-index

106
ext. papers

1,032
ext. citations

4
avg, IF

4.43
L-index

#	Paper	IF	Citations
77	Reduced-Sensors-Based Predictive Controller for LC Filtered Four-Leg Inverters. <i>IEEE Open Journal of Industry Applications</i> , 2021 , 2, 301-309	4.7	1
76	Development of a cost-effective circuit hardware architecture for brushless direct current motor driver. <i>International Journal of Circuit Theory and Applications</i> , 2021 , 49, 2183-2198	2	
75	A Novel Rotor Topology for High-Performance Fractional Slot Concentrated Winding Interior Permanent Magnet Machine. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 36, 658-670	5.4	6
74	Cascaded Predictive Flux Control for a 3-L Active NPC Fed IM Drives Without Weighting Factor. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 36, 1797-1807	5.4	5
73	A Standstill Method to Measure Electromagnetically Induced Torque Ripple of Permanent Magnet Synchronous Machines. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020 , 69, 7627-7635	5.2	3
72	Analysis of Torque Ripple of a Spoke-Type Interior Permanent Magnet Machine. <i>Energies</i> , 2020 , 13, 28863.1		6
71	Analytical Calculation of Maximum Mechanical Stress on the Rotor of Interior Permanent-Magnet Synchronous Machines. <i>IEEE Transactions on Industry Applications</i> , 2020 , 56, 1321-1331	4.3	3
70	Partially-Coupled dq0 Components of Magnetically-Isolated FSCW IPM Machines With Open-End-Winding Drives. <i>IEEE Transactions on Industry Applications</i> , 2020 , 56, 1397-1407	4.3	2
69	Planar polymer electrolyte membrane fuel cells: powering portable devices from hydrogen. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 439-468	5.8	21
68	Performances of a Fractional-Slot Concentrated-Winding Permanent Magnet Synchronous Machine Under Position Sensorless Control in Deep Flux-Weakening Region. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 5938-5946	4.3	7
67	Study on PCB Based Litz Wire Applications for Air-Core Inductor and Planar Transformer 2019 ,		4
66	Design of Optimal Winding Configurations for Symmetrical Multiphase Concentrated-Wound Surface-Mount PMSMs to Achieve Maximum Torque Density Under Current Harmonic Injection. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 1751-1761	8.9	18
65	Direct torque and flux control of interior permanent magnet synchronous machine in deep flux-weakening region. <i>IET Electric Power Applications</i> , 2018 , 12, 98-105	1.8	25
64	Analytical Calculation of Maximum Mechanical Stress on the Rotor of the Interior Permanent-Magnet Synchronous Machine 2018 ,		6
63	Design Optimization of a Spoke-Type FSCW IPM Machine to Achieve Low Torque Ripple and High Torque Density Under a Wide Constant Power Speed Range 2018 ,		5
62	Deep flux weakening control with six-step overmodulation for a segmented interior permanent magnet synchronous motor 2017 ,		5
61	Analysis of low-speed IPMMs with distributed and fractional slot concentrated windings designed for wind energy applications 2017 ,		1

60	Analysis of Low-Speed IPMMs With Distributed and Fractional Slot Concentrated Windings for Wind Energy Applications. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-10	2	13
59	Challenges for including characteristic current as a design parameter in optimization of IPM machines 2017 ,		2
58	2017 ,		3
57	Detailed Analytical Modeling of Fractional-Slot Concentrated-Wound Interior Permanent Magnet Machines for Prediction of Torque Ripple. <i>IEEE Transactions on Industry Applications</i> , 2017 , 53, 5272-5283	4.3	18
56	. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-12	2	23
55	Optimization of a MW Halbach PMSG for wind turbine applications 2016 ,		4
54	Analytical modeling of pulsating torque in concentrated-wound interior permanent magnet machines to achieve maximum average torque under an open-phase fault condition 2016 ,		1
53	Operation along the maximum torque per voltage trajectory in a direct torque and flux controlled interior permanent magnet synchronous motor 2016 ,		3
52	Control Strategy of Post-fault Operation in Dual Inverter-fed, PMSM considering Zero Sequence and Back-emf Harmonic 2016 ,		2
51	Performance of a Sensorless Controlled Concentrated-Wound Interior Permanent-Magnet Synchronous Machine at Low and Zero Speed. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 2016-2026	8.0	23
50	Space Vector PWM Techniques for Three-to-Five-Phase Indirect Matrix Converter in the Overmodulation Region. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 550-561	8.9	24
49	COGGING TORQUE AND TORQUE RIPPLE IN A DIRECT-DRIVE INTERIOR PERMANENT MAGNET GENERATOR. <i>Progress in Electromagnetics Research B</i> , 2016 , 70, 73-85	0.7	1
48	Torque ripple minimization in dual inverter open-end winding PMSM drives with non-sinusoidal back-EMFs by harmonic current suppression 2016 ,		7
47	Post-fault control strategy for IPMSMs with non-sinusoidal back-EMFs in an open-ended winding configuration 2016 ,		1
46	Detailed analytical modelling of fractional-slot concentrated-wound interior permanent magnet machines for prediction of torque ripple 2016 ,		2
45	Effect of eliminating rotor iron on a mega-watt halbach permanent magnet synchronous generator for wind turbine applications 2016 ,		1
44	A modified single-current-regulator control scheme for deep flux-weakening operation of interior permanent magnet synchronous motors 2016 ,		2
43	A preliminary study of the effect of saturation and cross-magnetization on the inductances of a fractional-slot concentrated-wound interior PM synchronous machine 2015 ,		7

42	Closed-loop control strategy for PM machines with non-sinusoidal back-EMFs using dual-inverter open-end winding 2015 ,		5
41	Inductances of a fractional-slot concentrated-winding interior PM synchronous machine considering effects of saturation and cross magnetization 2015 ,		6
40	Deep flux weakening control of a segmented interior permanent magnet synchronous motor with maximum torque per voltage control 2015 ,		14
39	Lifetime Cost Assessment of Permanent Magnet Synchronous Generators for MW Level Wind Turbines. <i>IEEE Transactions on Sustainable Energy</i> , 2014 , 5, 10-17	8.2	28
38	Analysis of MMF and back-EMF waveforms for fractional-slot concentrated-wound permanent magnet machines 2014 ,		12
37	Performance analysis of a new concentratedwinding interior permanent magnet synchronous machine under Field Oriented Control 2014 ,		3
36	Analysis of common mode voltage using carrier-based method for dual-inverter open-end winding 2014 ,		2
35	Overmodulation techniques for the three-to-five phase indirect matrix converter with space vector PWM 2014 ,		2
34	Application of partial direct-pole-placement and differential evolution algorithm to optimize controller and LCL filter design for grid-tied inverter 2014 ,		10
33	Investigation of flat and V-shaped magnets in interior permanent magnet machine for direct drive wind turbine application 2013 ,		4
32	Distributed and concentrated winding Interior PM Synchronous Machine (IPMSM) for direct drive wind turbine 2013 ,		7
31	Design of an Interior Permanent Magnet Synchronous Machine suitable for Direct Drive Wind Turbine 2013 ,		3
30	Design of a 4KW interior permanent magnet machine suitable for low speed application 2013 ,		1
29	Design and Experimental Verification of an 18-Slot/14-pole Fractional-Slot Concentrated Winding Interior Permanent Magnet Machine. <i>IEEE Transactions on Energy Conversion</i> , 2013 , 28, 181-190	5.4	62
28	ANALYSIS AND EXPERIMENTAL VERIFICATION OF LOSSES IN A CONCENTRATED WOUND INTERIOR PERMANENT MAGNET MACHINE. <i>Progress in Electromagnetics Research B</i> , 2013 , 48, 221-248	0.7	12
27	AC Motor Control Applications in Vehicle Traction 2013 , 453-486		4
26	Control of Interior Permanent Magnet Synchronous Machines 2013 , 398-428		
25	An investigation of the use of a Halbach array in MW level permanent magnet synchronous generators 2012 ,		3

24	Flux density analysis of using Halbach array in MW level permanent magnet synchronous generators for wind turbines: A preliminary linear model 2012 ,		4
23	2012 ,		8
22	Winding Inductances of an Interior Permanent Magnet (IPM) Machine With Fractional Slot Concentrated Winding. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 4842-4849	2	42
21	Application of particle swarm optimization in the design of large permanent magnet synchronous generators for wind turbines 2012 ,		3
20	Sensorless direct torque control of a fractional-slot concentrated winding interior permanent magnet synchronous machine using extended rotor flux model 2012 ,		1
19	The preliminary results on Direct Torque Control for an fractional-slot concentrated winding Interior Permanent Magnet Synchronous Machine 2012 ,		2
18	Experimental verification of core and magnet losses in a concentrated wound IPM machine with V-shaped magnets used in field weakening applications 2011 ,		4
17	Experimental verification of open circuit parameters of an IPM machine with concentrated windings 2011 ,		3
16	Analysis of CPSR in motoring and generating modes of an IPM motor 2011 ,		2
15	2010 ,		7
14	Field weakening performance of a concentrated wound PM machine with rotor and magnet geometry variation 2010 ,		10
13	Design and thermal considerations of an interior permanent magnet machine with concentrated windings 2009 ,		2
12	Design and Analysis of an Interior Permanent Magnet (IPM) Machine With Very Wide Constant Power Operation Range. <i>IEEE Transactions on Energy Conversion</i> , 2008 , 23, 25-33	5.4	91
11	Application of Concentrated Windings in the Interior Permanent Magnet Machine. <i>Australian Journal of Electrical and Electronics Engineering</i> , 2008 , 5, 229-236	0.6	2
10	Application of concentrated windings in interior permanent magnet machine 2007 ,		7
9	Analysis of Cogging Torque and its Effect on Direct Torque Control (DTC) in a Segmented Interior Permanent Magnet Machine 2007 ,		3
8	Cogging Torque Analysis of a Segmented Interior Permanent Magnet Machine 2007 ,		10
7	A Comparative Analysis of Two Test Methods of Measuring d - and q -Axes Inductances of Interior Permanent-Magnet Machine. <i>IEEE Transactions on Magnetics</i> , 2006 , 42, 3712-3718	2	88

6	Design and Analysis of an Interior Permanent Magnet (IPM) Machine with Very Wide Constant Power Operation Range. <i>Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006,</i>	4
5	Analysis and Comparison of Methods for Determining d- and q-axes Inductances of IPM Machines 2005,	2
4	A segmented magnet interior permanent magnet machine with wide constant power range for application in hybrid vehicles	8
3	Comparison of Core Loss Prediction Methods for the Interior Permanent Magnet Machine	2
2	An investigation of a segmented rotor interior permanent magnet (IPM) machine for field weakening	2
1	A new rotor design of interior permanent magnet machine suitable for wide speed range	2