

Pavol Rafajdus

List of Publications by Year in descending order

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74
papers

591
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933447

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74
all docs

74
docs citations

74
times ranked

447
citing authors

#	ARTICLE	IF	CITATIONS
1	Harmonic Loss Calculation in Rotor Surface Permanent Magnets – New Analytic Approach. IEEE Transactions on Magnetics, 2012, 48, 2358-2366.	2.1	66
2	Comparison of Synchronous Motors With Different Permanent Magnet and Winding Types. IEEE Transactions on Magnetics, 2013, 49, 1256-1263.	2.1	51
3	Hybrid excitation synchronous generators for island operation. IET Electric Power Applications, 2012, 6, 1.	1.8	39
4	A Novel Method of Magnetizing Inductance Investigation of Self-Excited Induction Generators. IEEE Transactions on Magnetics, 2012, 48, 1657-1660.	2.1	33
5	Control of switched reluctance motor by current profiling under normal and open phase operating condition. IET Electric Power Applications, 2017, 11, 548-556.	1.8	30
6	Electromagnetic Design of Ironless Permanent Magnet Synchronous Linear Motor. , 2008, , .		23
7	Investigation of Losses and Efficiency in Switched Reluctance Motor. , 2006, , .		21
8	Sources of torque ripple and their influence in BLDC motor drives. Transportation Research Procedia, 2019, 40, 519-526.	1.5	20
9	Optimization of switched reluctance motor design procedure for electrical vehicles. , 2014, , .		19
10	Current Harmonics Controller for Reduction of Acoustic Noise, Vibrations and Torque Ripple Caused by Cogging Torque in PM Motors under FOC Operation. Energies, 2020, 13, 2534.	3.1	15
11	Determination of single phase induction motor parameters. , 2010, , .		14
12	Static and dynamic fault analysis of Switched Reluctance Motor. , 2012, , .		14
13	Modelling and Design of HF 200 kHz Transformers for Hard- and Soft-Switching Application. Elektronika Ir Elektrotechnika, 2011, 110, 7-12.	0.8	13
14	Ferrites and Different Winding Types in Permanent Magnet Synchronous Motor. Journal of Electrical Engineering, 2012, 63, 162-170.	0.7	12
15	Geometrical dimension influence of multi-barrier rotor on reluctance synchronous motor performances. , 0, , .		10
16	Design and optimization of switched reluctance motor for electrical vehicles. Electrical Engineering, 2017, 99, 1393-1401.	2.0	10
17	Dynamic model of High Speed Switched Reluctance Motor for automotive applications. Transportation Research Procedia, 2019, 40, 302-309.	1.5	10
18	Design and Optimization of a High-Speed Switched Reluctance Motor. Energies, 2021, 14, 6733.	3.1	10

#	ARTICLE	IF	CITATIONS
19	Two-phase power electronic drive with split — Single-phase induction motor. , 2010, , .		9
20	Effects of winding faults on the switched reluctance machine's working performances. , 2011, , .		9
21	Synchronous motors with different PM materials. , 2012, , .		9
22	Performance of Converters Suitable for Switched Reluctance Generator (SRG) Operation. Journal of Electrical Engineering, 2013, 64, 201-211.	0.7	8
23	Effect of Saturation on Field Oriented Control of the New Designed Reluctance Synchronous Motor. Energies, 2018, 11, 3223.	3.1	8
24	Improved barriers rotor of the reluctance synchronous motor. Electrical Engineering, 2017, 99, 1325-1335.	2.0	7
25	Control Strategies for the Identification and Reduction of Cogging Torque in PM Motors. , 2019, , .		7
26	Design procedure of switched reluctance motor used for electric car drive. , 2014, , .		6
27	Design of fault tolerant control technique for SRM drive. , 2014, , .		6
28	A novel design conception of Switched Reluctance Motor for electrical vehicles. , 2014, , .		6
29	Sensorless control of high speed BLDC. , 2017, , .		6
30	A Novel Concept of Short-Flux Path Switched Reluctance Motor for Electrical Vehicles. Advances in Electrical and Electronic Engineering, 2015, 13, .	0.3	6
31	Concentrated versus distributed winding in permanent magnet synchronous motors. , 2017, , .		5
32	Design of High Speed Switched Reluctance Motor. , 2018, , .		5
33	Current controller with slope compensation for a switched reluctance motor. , 2018, , .		5
34	Switched reluctance motor drive with low-speed performance improvement. Electrical Engineering, 2020, 102, 27-41.	2.0	5
35	A power loss calculation method of IGBT SRM converter. , 2015, , .		4
36	Sensorless control of variable speed drives using switched reluctance machine. , 2017, , .		4

#	ARTICLE	IF	CITATIONS
37	Transient analysis of voltage transformer in order to fault location in medium voltage network. , 2010, , .		3
38	Position sensing system for switched reluctance motor control. , 2012, , .		3
39	Direct instantaneous torque controlled modular switched reluctance motor designed for automotive applications. , 2014, , .		3
40	Using of suitable reluctance motors for electric vehicles and comparison of their performances. , 2015, , .		3
41	Replacing of DC motor in the first Slovak electric car by an optimized switched reluctance motor. , 2016, , .		3
42	Improved train simulation with speed control algorithm. Transportation Research Procedia, 2019, 40, 1563-1570.	1.5	3
43	Torque Ripple Reduction in PM Synchronous Motor - FEM simulation. , 2020, , .		3
44	Analysis of Switched Reluctance Motor Behavior under Electrical Fault Conditions. Communications - Scientific Letters of the University of Zilina, 2013, 15, 60-66.	0.6	3
45	Current Harmonics Control in Six-Phase PMSM. , 2022, , .		3
46	Investigation of Losses and Efficiency in Switched Reluctance Motor. , 2006, , .		2
47	Current transformer analysis under transient conditions. , 2010, , .		2
48	On the usefulness of numeric field computations in the study of the switched reluctance motor's winding faults. , 2011, , .		2
49	Control techniques for torque ripple minimization in switched reluctance drives under faults. , 2016, , .		2
50	Model Railway Traction Performance Measurements and Analysis. Procedia Engineering, 2017, 192, 824-829.	1.2	2
51	Design and parameter analysis of short-flux path switched reluctance motor in electrical vehicles. , 2017, , .		2
52	Development of an advanced locomotive simulator. , 2017, , .		2
53	Simple Polynomial Method for Inductance Calculation in Switched Reluctance Motor. , 2018, , .		2
54	Low Voltage Reluctance Synchronous Motor with New Reluctance Rotor for Water Pump. , 2018, , .		2

#	ARTICLE	IF	CITATIONS
55	Design of High Speed Reluctance Synchronous Motor for Automotive Purposes. , 2018, , .		2
56	Design of Low Voltage Reluctance Synchronous Motor. , 2018, , .		2
57	Analysis of Electrical Machines. , 0, , .		2
58	Analysis of Loss and Thermal Performance of High Speed PMSM for Automotive Application. , 2022, , .		2
59	Thermal Analysis of Superconducting Traction Transformer. , 2008, , .		1
60	The verification of data acquisition approach for new fault location method in medium voltage networks. , 2011, , .		1
61	Representation of saturation in transformer model used in wind turbines simulator. , 2012, , .		1
62	Diagnostics system of power transformers supported by Finite Element Analysis. , 2012, , .		1
63	Efficiency and losses analysis in switched reluctance motors for electric vehicles. , 2015, , .		1
64	Analysis and Measurements of New Designed Reluctance Synchronous Rotor. , 2018, , .		1
65	Evaluating Low Speed Limit of Back-EMF Observer for Permanent Magnet Synchronous Motor. Transportation Research Procedia, 2019, 40, 610-615.	1.5	1
66	Number of Turns Influence on the Parameters of High Speed Switched Reluctance Motor. , 2019, , .		1
67	Adaptive algorithm to reduce acoustic noise and torque ripple in low-cost PM motors. , 2019, , .		1
68	Self sensing control of Switched Reluctance Drive with Sliding Mode Observer using phase voltage calculation. , 2020, , .		1
69	Effect of Air Gap Size on Parameters of High Speed Switched Reluctance Motor. , 2020, , .		1
70	Useful Software Tool For Simulating Switched Reluctance Motors. , 2011, , .		1
71	Torque Smoothing of a Fault Tolerant Segmental Stator Switched Reluctance Motor. Communications - Scientific Letters of the University of Zilina, 2015, 17, 95-101.	0.6	1
72	Design of Superconducting Traction Transformer and Its Thermal Analysis. , 2008, , .		0

#	ARTICLE	IF	CITATIONS
73	RT-LAB simulator platform for simulation of switched reluctance machine. , 2012, , .		0
74	Sensorless Control Strategy for Switched Reluctance Traction Drive Based on High Frequency Injection. Lecture Notes in Electrical Engineering, 2020, , 97-109.	0.4	0