

Pavol Rafajdus

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Analysis of Loss and Thermal Performance of High Speed PMSM for Automotive Application. , 2022, , .		2
2	Current Harmonics Control in Six-Phase PMSM. , 2022, , .		3
3	Design and Optimization of a High-Speed Switched Reluctance Motor. Energies, 2021, 14, 6733.	3.1	10
4	Switched reluctance motor drive with low-speed performance improvement. Electrical Engineering, 2020, 102, 27-41.	2.0	5
5	Self sensing control of Switched Reluctance Drive with Sliding Mode Observer using phase voltage calculation. , 2020, , .		1
6	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
7	Effect of Air Gap Size on Parameters of High Speed Switched Reluctance Motor. , 2020, , .		1
8	Torque Ripple Reduction in PM Synchronous Motor - FEM simulation. , 2020, , .		3
9	Sensorless Control Strategy for Switched Reluctance Traction Drive Based on High Frequency Injection. Lecture Notes in Electrical Engineering, 2020, , 97-109.	0.4	0
10	Improved train simulation with speed control algorithm. Transportation Research Procedia, 2019, 40, 1563-1570.	1.5	3
11	Control Strategies for the Identification and Reduction of Cogging Torque in PM Motors. , 2019, , .		7
12	Dynamic model of High Speed Switched Reluctance Motor for automotive applications. Transportation Research Procedia, 2019, 40, 302-309.	1.5	10
13	Sources of torque ripple and their influence in BLDC motor drives. Transportation Research Procedia, 2019, 40, 519-526.	1.5	20
14	Evaluating Low Speed Limit of Back-EMF Observer for Permanent Magnet Synchronous Motor. Transportation Research Procedia, 2019, 40, 610-615.	1.5	1
15	Number of Turns Influence on the Parameters of High Speed Switched Reluctance Motor. , 2019, , .		1
16	Adaptive algorithm to reduce acoustic noise and torque ripple in low-cost PM motors. , 2019, , .		1
17	Effect of Saturation on Field Oriented Control of the New Designed Reluctance Synchronous Motor. Energies, 2018, 11, 3223.	3.1	8
18	Simple Polynomial Method for Inductance Calculation in Switched Reluctance Motor. , 2018, , .		2

#	ARTICLE	IF	CITATIONS
19	Analysis and Measurements of New Designed Reluctance Synchronous Rotor. , 2018, , .		1
20	Low Voltage Reluctance Synchronous Motor with New Reluctance Rotor for Water Pump. , 2018, , .		2
21	Design of High Speed Switched Reluctance Motor. , 2018, , .		5
22	Design of High Speed Reluctance Synchronous Motor for Automotive Purposes. , 2018, , .		2
23	Current controller with slope compensation for a switched reluctance motor. , 2018, , .		5
24	Design of Low Voltage Reluctance Synchronous Motor. , 2018, , .		2
25	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
26	Sensorless control of variable speed drives using switched reluctance machine. , 2017, , .		4
27	Design and optimization of switched reluctance motor for electrical vehicles. Electrical Engineering, 2017, 99, 1393-1401.	2.0	10
28	Improved barriers rotor of the reluctance synchronous motor. Electrical Engineering, 2017, 99, 1325-1335.	2.0	7
29	Model Railway Traction Performance Measurements and Analysis. Procedia Engineering, 2017, 192, 824-829.	1.2	2
30	Design and parameter analysis of short-flux path switched reluctance motor in electrical vehicles. , 2017, , .		2
31	Sensorless control of high speed BLDC. , 2017, , .		6
32	Concentrated versus distributed winding in permanent magnet synchronous motors. , 2017, , .		5
33	Development of an advanced locomotive simulator. , 2017, , .		2
34	Replacing of DC motor in the first Slovak electric car by an optimized switched reluctance motor. , 2016, , .		3
35	Control techniques for torque ripple minimization in switched reluctance drives under faults. , 2016, , .		2
36	Efficiency and losses analysis in switched reluctance motors for electric vehicles. , 2015, , .		1

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37	A power loss calculation method of IGBT SRM converter. , 2015, , .		4
38	Using of suitable reluctance motors for electric vehicles and comparison of their performances. , 2015, , .		3
39	A Novel Concept of Short-Flux Path Switched Reluctance Motor for Electrical Vehicles. Advances in Electrical and Electronic Engineering, 2015, 13, .	0.3	6
40	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
41	Direct instantaneous torque controlled modular switched reluctance motor designed for automotive applications. , 2014, , .		3
42	Design procedure of switched reluctance motor used for electric car drive. , 2014, , .		6
43	Design of fault tolerant control technique for SRM drive. , 2014, , .		6
44	Optimization of switched reluctance motor design procedure for electrical vehicles. , 2014, , .		19
45	A novel design conception of Switched Reluctance Motor for electrical vehicles. , 2014, , .		6
46	Comparison of Synchronous Motors With Different Permanent Magnet and Winding Types. IEEE Transactions on Magnetics, 2013, 49, 1256-1263.	2.1	51
47	Performance of Converters Suitable for Switched Reluctance Generator (SRG) Operation. Journal of Electrical Engineering, 2013, 64, 201-211.	0.7	8
48	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
49	RT-LAB simulator platform for simulation of switched reluctance machine. , 2012, , .		0
50	Position sensing system for switched reluctance motor control. , 2012, , .		3
51	Ferrites and Different Winding Types in Permanent Magnet Synchronous Motor. Journal of Electrical Engineering, 2012, 63, 162-170.	0.7	12
52	Representation of saturation in transformer model used in wind turbines simulator. , 2012, , .		1
53	Diagnostics system of power transformers supported by Finite Element Analysis. , 2012, , .		1
54	Static and dynamic fault analysis of Switched Reluctance Motor. , 2012, , .		14

#	ARTICLE	IF	CITATIONS
55	Synchronous motors with different PM materials. , 2012, , .		9
56	Hybrid excitation synchronous generators for island operation. IET Electric Power Applications, 2012, 6, 1.	1.8	39
57	A Novel Method of Magnetizing Inductance Investigation of Self-Excited Induction Generators. IEEE Transactions on Magnetics, 2012, 48, 1657-1660.	2.1	33
58	Harmonic Loss Calculation in Rotor Surface Permanent Magnetsâ€™New Analytic Approach. IEEE Transactions on Magnetics, 2012, 48, 2358-2366.	2.1	66
59	Effects of winding faults on the switched reluctance machine's working performances. , 2011, , .		9
60	On the usefulness of numeric field computations in the study of the switched reluctance motor's winding faults. , 2011, , .		2
61	The verification of data acquisition approach for new fault location method in medium voltage networks. , 2011, , .		1
62	Modelling and Design of HF 200 kHz Transformers for Hard- and Soft-Switching Application. Elektronika Ir Elektrotechnika, 2011, 110, 7-12.	0.8	13
63	Useful Software Tool For Simulating Switched Reluctance Motors. , 2011, , .		1
64	Transient analysis of voltage transformer in order to fault location in medium voltage network. , 2010, , .		3
65	Current transformer analysis under transient conditions. , 2010, , .		2
66	Two-phase power electronic drive with split — Single-phase induction motor. , 2010, , .		9
67	Determination of single phase induction motor parameters. , 2010, , .		14
68	Design of Superconducting Traction Transformer and Its Thermal Analysis. , 2008, , .		0
69	Electromagnetic Design of Ironless Permanent Magnet Synchronous Linear Motor. , 2008, , .		23
70	Thermal Analysis of Superconducting Traction Transformer. , 2008, , .		1
71	Investigation of Losses and Efficiency in Switched Reluctance Motor. , 2006, , .		21
72	Investigation of Losses and Efficiency in Switched Reluctance Motor. , 2006, , .		2

#	ARTICLE	IF	CITATIONS
73	Geometrical dimension influence of multi-barrier rotor on reluctance synchronous motor performances. , 0, , .		10
74	Analysis of Electrical Machines. , 0, , .		2