

Claudia Martis

List of Publications by Year in descending order

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papers

640
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93
all docs

93
docs citations

93
times ranked

488
citing authors

#	ARTICLE	IF	CITATIONS
1	IoT Based Smart Parking System Using Deep Long Short Memory Network. Electronics (Switzerland), 2020, 9, 1696.	3.1	59
2	Electromagnetic and Structural Analysis for a Surface-Mounted PMSM Used for Light-EV. IEEE Transactions on Industry Applications, 2016, 52, 2892-2899.	4.9	42
3	An Equivalent Internal Circuit of the Induction Machine for Advanced Spectral Analysis. IEEE Transactions on Industry Applications, 2004, 40, 726-734.	4.9	40
4	Comparative analysis of different synchronous reluctance motor topologies. , 2015, , .		31
5	Current Situation and Future Perspectives of the Romanian Renewable Energy. Energies, 2018, 11, 3289.	3.1	27
6	Synchronous reluctance machine geometry optimisation through a genetic algorithm based technique. IET Electric Power Applications, 2018, 12, 431-438.	1.8	23
7	Parameters identification using experimental measurements for equivalent circuit Lithium-Ion cell models. , 2019, , .		19
8	Digital Twin Real-Time FPGA Implementation for Light Electric Vehicle Propulsion System Using EMR Organization. , 2019, , .		19
9	New shape of rotor flux barriers in synchronous reluctance machines based on Zhukovski curves. , 2015, , .		18
10	Design and control of synchronous reluctances motors for electric traction vehicle. , 2016, , .		16
11	FPGA based processor in the loop analysis of variable reluctance machine with speed control. , 2016, , .		16
12	Multi-physics design of synchronous reluctance machine for high speed applications. , 2016, , .		15
13	Artificial Neural Network and Data Dimensionality Reduction Based on Machine Learning Methods for PMSM Model Order Reduction. IEEE Access, 2021, 9, 102345-102354.	4.2	15
14	Influence of rotor geometry on NVH behavior of synchronous reluctance machine. , 2015, , .		13
15	A comparative study of system-level PMSM models with either current or flux-linkage state variables used for vibro-acoustic computation. , 2019, , .		12
16	Synchronous reluctance motors for small electric traction vehicle. , 2014, , .		11
17	Model-based design and testing for electric vehicle driveability analysis. , 2016, , .		11
18	Review of multidisciplinary homogenization techniques applied to electric machines. , 2016, , .		11

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19	Vibroacoustic behaviour analysis of a permanent magnet synchronous machine for automotive applications. , 2014, , .		9
20	Magnetic equivalent circuit modelling of Reluctance Machines. , 2016, , .		9
21	Simplified model of synchronous reluctance machine with optimized flux barriers. Electrical Engineering, 2017, 99, 1207-1216.	2.0	8
22	Electromagnetic and Mechanical Analysis of a Modular Outer Rotor Synchronous Reluctance Machine for Light Propulsion Vehicles. IEEE Transactions on Transportation Electrification, 2021, 7, 2798-2811.	7.8	8
23	Real-time co-simulation platform for electromechanical vehicle applications. , 2015, , .		7
24	Comparative analysis of rare earth-less electrical machines for 48V automotive cooling fan applications. , 2017, , .		7
25	First Insights on the Electromagnetic Design of Axial-Flux Synchronous-Reluctance Maschine. , 2018, , .		7
26	Optimal rotor design of novel outer rotor reluctance synchronous machine. Electrical Engineering, 2020, 102, 107-116.	2.0	7
27	Synchronous Reluctance Machines for Automotive Cooling Fan Systems: Numerical and Experimental Study of Different Slot-Pole Combinations and Winding Types. Energies, 2021, 14, 460.	3.1	7
28	PMSM Current Shaping for Minimum Joule Losses While Reducing Torque Ripple and Vibrations. IEEE Access, 2021, 9, 114705-114714.	4.2	7
29	Analysis of NVH Behavior of Synchronous Reluctance Machine for EV Applications. Energies, 2022, 15, 2785.	3.1	7
30	Study of torque ripple and noise for different rotor topologies of a synchronous reluctance machine. , 2015, , .		6
31	Multiphysics design, analysis and optimisation platform of PMSM for automotive applications. , 2016, , .		6
32	Six-phase brushless DC motor for fault tolerant electric power steering systems. , 2007, , .		5
33	A simple analytical model of a permanent magnet transverse flux motor with a particular disk rotor. , 2012, , .		5
34	Real-time FPGA model in the loop analysis of Permanent Magnet Synchronous Machine for LEV. , 2016, , .		5
35	Magnetic equivalent circuit of synchronous reluctance machine. , 2016, , .		5
36	Complete FPGA based real-time motor drive simulator with bidirectional battery and ultracapacitor power supply. , 2017, , .		5

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37	Analysis of outer rotor synchronous reluctance motor for low-speed applications. , 2017, , .		5
38	Saturation and cross-saturation in synchronous reluctance machines. , 2018, , .		5
39	Design and Analysis of a Permanent Magnet Synchronous Machine used in Automotive Applications. , 2019, , .		5
40	Comparisons of Models of Electric Drives for Electric Vehicles. , 2019, , .		5
41	Design and Performance of a Small Doubly-Salient Rotor-Permanent-Magnet Motor. Electric Power Components and Systems, 2002, 30, 823-832.	1.8	4
42	Torque ripple analysis of a 42V fault tolerant six-phase permanent magnet synchronous machine. , 2010, , .		4
43	Sizing-designing procedure of the permanent magnet flux-switching machine based on a simplified analytical model. , 2012, , .		4
44	Optimal design of a flux-switching permanent magnet machine for small power automotive applications. , 2014, , .		4
45	Design of induction motor for electric power-assisted steering systems. , 2016, , .		4
46	Real-Time Simulation of a Complete Electric Vehicle Based on NI VeriStand Integration Platform. , 2018, , .		4
47	Comparative Analysis for an Electric Power Steering System. , 2018, , .		4
48	Detailed Design of Second Order Model of Lithium-Ion Battery Simulator Based on Experimental Measurements. , 2019, , .		4
49	Multi-level models for a light electric vehicle propulsion system using EMR organisation. , 2020, , .		4
50	Literature Review - Electric Vehicles Life Cycle Assessment. , 2020, , .		4
51	Reactive Power Transfer via Matrix Converter Controlled by the "One Periodical" Algorithm. Energies, 2020, 13, 665.	3.1	4
52	Simple and Robust Current Sensor Fault Detection and Compensation Method for 3-Phase Inverters. IEEE Access, 2020, 8, 34820-34832.	4.2	4
53	Parameter Identification, Modeling and Testing of Li-Ion Batteries Used in Electric Vehicles. , 0, , .		4
54	Battery electric vehicle (BEV) powertrain modelling and testing for real-time control prototyping platform integration. , 2021, , .		4

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55	Analysis of permanent magnet synchronous machine for integrated starter-alternator-booster applications. , 2015, , .		3
56	Rapid control prototyping of a speed control strategy for a switched reluctance machine. , 2016, , .		3
57	Common and normal mode currents in PMSM PWM drives. , 2016, , .		3
58	FPGA Based Real-Time Electric Power Assisted Steering Motor-Drive Simulator Designed for HiL Testing in the Automotive Industry. , 2017, , .		3
59	Electromagnetic and NVH study for low power Synchronous Reluctance Machine. , 2018, , .		3
60	Real-time Model in the Loop analysis of PMSM for electric power steering system based on FPGA implementation. , 2018, , .		3
61	Complete electric power steering system real-time model in the loop simulator. , 2018, , .		3
62	Impedance Modeling Oriented Toward the Early Prediction of High-Frequency Response for Permanent Magnet Synchronous Machines. IEEE Transactions on Industrial Electronics, 2023, 70, 4548-4557.	7.9	3
63	Design and Performance Analysis of an Integrated Starter-Alternator for Hybrid Electric Vehicles. Advanced Engineering Forum, 2013, 8-9, 453-460.	0.3	2
64	Optimal Design of SRMs for Comparable Output with PMSMs. , 2018, , .		2
65	Integration of Real-Time Electric Power Steering System Matlab/Simulink Model into National Instruments VeriStand Environment. , 2018, , .		2
66	Multi-Attribute, System-Level Design Process for Automotive Powertrain Electric Drives: An Integrated Approach. SAE International Journal of Alternative Powertrains, 0, 7, 117-128.	0.8	2
67	HiL testing of Li-Ion battery pack based on real-time virtual vehicle model. , 2021, , .		2
68	Study of winding arrangement and material quality effects on the core losses in high speed switched reluctance machines. , 2015, , .		1
69	Principal Component Analysis for Computation of the Magnetization Characteristics of Synchronous Reluctance Machine. , 2018, , .		1
70	Real-Time Co-simulation of Electric Power Steering System. , 2018, , .		1
71	Performance Evaluation of a 7.5 kW Permanent Magnet Assisted Synchronous Reluctance Machine for Light Electric Vehicles. , 2018, , .		1
72	Design, Building and Testing a High Voltage-Low Current Drive for SRMs Used for Automotive Applications. , 2018, , .		1

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73	Design and Analysis of a Surface Permanent Magnet Synchronous Machine for Automotive Applications. , 2019, , .		1
74	Analysis Performances of Outer Rotor Synchronous Reluctance Machine with or without Permanent Magnets for Small Electric Propulsion Application. , 2019, , .		1
75	Real-time simulation of scaled propulsion unit for light electric vehicles. Electrical Engineering, 2020, 102, 43-52.	2.0	1
76	A review on analytical methods for multilevel simulation of urban light electric vehicles. , 2021, , .		1
77	Urban light electric vehicle real-time model architecture using VeriStand Software. , 2021, , .		1
78	Considerations on design, development and testing of Electrical Machines for automotive HVAC. MATEC Web of Conferences, 2020, 322, 01042.	0.2	1
79	Multi-level simulation of a BEV using EMR methodology. , 2020, , .		1
80	Multi-Phase Linear Generator for Electric Vehicle Applications. Advanced Engineering Forum, 0, 8-9, 461-468.	0.3	0
81	Analysis of a switched reluctance machine for EV application with torque smoothening strategy. , 2015, , .		0
82	FPGA based real-time simulation of a Switched Reluctance machine drive unit. , 2016, , .		0
83	Real-time FPGA simulator for electric vehicle power supply systems. , 2017, , .		0
84	Soft Magnetic Composites in the design of Permanent Magnet Synchronous Actuators. , 2018, , .		0
85	Design and Optimization Platform for Synchronous Motors. , 2018, , .		0
86	A study of the rotor design influence in power factor value of ORSynRM. , 2018, , .		0
87	Comparative performance evaluation of synchronous reluctance machine with outer rotor versus inner rotor. , 2018, , .		0
88	Comparison of electric power steering assistant motor structures using real-time model in the loop analysis. , 2018, , .		0
89	Performance Analysis of Outer Rotor Synchronous Reluctance Machine with Different Number and Form of Flux Barriers Per Pole. , 2019, , .		0
90	Modeling. control and simulation of a light electric vehicle propulsion system based on EMR. , 2019, , .		0

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91	Modeling And Simulation Of A Permanent Magnet Synchronous Motor For Brake-By-Wire Technology In Automotive Applications. , 2011, , .		0
92	Hardware in the Loop Testing of an Urban Electric Vehicle Model Supplied with Supercapacitors. , 2021, , .		0
93	Validation of EMR simulation platform of a permanent magnet synchronous machine used for electric propulsion. , 2021, , .		0