

Leila Parsa

List of Publications by Year in descending order

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88
papers

4,970
citations

136950

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243625

44
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88
all docs

88
docs citations

88
times ranked

3407
citing authors

#	ARTICLE	IF	CITATIONS
1	Automotive Electric Propulsion Systems With Reduced or No Permanent Magnets: An Overview. IEEE Transactions on Industrial Electronics, 2014, 61, 5696-5711.	7.9	607
2	Recent Advances in Modeling and Online Detection of Stator Interturn Faults in Electrical Motors. IEEE Transactions on Industrial Electronics, 2011, 58, 1564-1575.	7.9	439
3	Fault-Tolerant Interior-Permanent-Magnet Machines for Hybrid Electric Vehicle Applications. IEEE Transactions on Vehicular Technology, 2007, 56, 1546-1552.	6.3	268
4	Fault-Tolerant Control of Five-Phase Permanent-Magnet Motors With Trapezoidal Back EMF. IEEE Transactions on Industrial Electronics, 2011, 58, 476-485.	7.9	254
5	An Efficient High-Step-Up Interleaved DC-DC Converter With a Common Active Clamp. IEEE Transactions on Power Electronics, 2011, 26, 66-78.	7.9	213
6	An Optimal Control Technique for Multiphase PM Machines Under Open-Circuit Faults. IEEE Transactions on Industrial Electronics, 2008, 55, 1988-1995.	7.9	197
7	Impedance Modeling of Three-Phase Voltage Source Converters in DQ, Sequence, and Phasor Domains. IEEE Transactions on Energy Conversion, 2017, 32, 1139-1150.	5.2	178
8	Global Fault-Tolerant Control Technique for Multiphase Permanent-Magnet Machines. IEEE Transactions on Industry Applications, 2015, 51, 178-186.	4.9	173
9	A Generalized Fault-Tolerant Control Strategy for Five-Phase PM Motor Drives Considering Star, Pentagon, and Pentacle Connections of Stator Windings. IEEE Transactions on Industrial Electronics, 2014, 61, 63-75.	7.9	168
10	Series-Input Parallel-Output Modular-Phase DC-DC Converter With Soft-Switching and High-Frequency Isolation. IEEE Transactions on Power Electronics, 2016, 31, 111-119.	7.9	153
11	Sensorless Direct Torque Control of Five-Phase Interior Permanent-Magnet Motor Drives. IEEE Transactions on Industry Applications, 2007, 43, 952-959.	4.9	140
12	A Unified Fault-Tolerant Current Control Approach for Five-Phase PM Motors With Trapezoidal Back EMF Under Different Stator Winding Connections. IEEE Transactions on Power Electronics, 2013, 28, 3517-3527.	7.9	139
13	High-Torque-Density Control of Multiphase Induction Motor Drives Operating Over a Wide Speed Range. IEEE Transactions on Industrial Electronics, 2015, 62, 814-825.	7.9	127
14	Wide Operational Speed Range of Five-Phase Permanent Magnet Machines by Using Different Stator Winding Configurations. IEEE Transactions on Industrial Electronics, 2012, 59, 2621-2631.	7.9	111
15	Interior Permanent Magnet Motors With Reduced Torque Pulsation. IEEE Transactions on Industrial Electronics, 2008, 55, 602-609.	7.9	108
16	Trends in Electrical Machines Control: Samples for Classical, Sensorless, and Fault-Tolerant Techniques. IEEE Industrial Electronics Magazine, 2014, 8, 43-55.	2.6	96
17	An Efficient AC-DC Step-Up Converter for Low-Voltage Energy Harvesting. IEEE Transactions on Power Electronics, 2010, 25, 2188-2199.	7.9	92
18	Model Reference Adaptive Control of Five-Phase IPM Motors Based on Neural Network. IEEE Transactions on Industrial Electronics, 2012, 59, 1500-1508.	7.9	86

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19	Design and Implementation of a Direct AC-DC Boost Converter for Low-Voltage Energy Harvesting. IEEE Transactions on Industrial Electronics, 2011, 58, 2387-2396.	7.9	77
20	Fault-Tolerant Operation of Multiphase Permanent-Magnet Machines Using Iterative Learning Control. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2014, 2, 201-211.	5.4	64
21	Automotive Electric Motors, Generators, and Actuator Drive Systems With Reduced or No Permanent Magnets and Innovative Design Concepts. IEEE Transactions on Industrial Electronics, 2014, 61, 5693-5695.	7.9	63
22	Five-Phase Interior Permanent-Magnet Motors With Low Torque Pulsation. IEEE Transactions on Industry Applications, 2007, 43, 40-46.	4.9	61
23	A Novel High Efficiency High Power Interleaved Coupled-Inductor Boost DC-DC Converter for Hybrid and Fuel Cell Electric Vehicle. , 2007, , .		58
24	Design, Control, and Analysis of a Fault-Tolerant Soft-Switching DC-DC Converter for High-Power High-Voltage Applications. IEEE Transactions on Power Electronics, 2018, 33, 1094-1104.	7.9	57
25	A Scalable &Nbsp;-Color LED Driver Using Single Inductor Multiple Current Output Topology. IEEE Transactions on Power Electronics, 2016, 31, 3773-3783.	7.9	52
26	STFT Cluster Analysis for DC Pulsed Load Monitoring and Fault Detection on Naval Shipboard Power Systems. IEEE Transactions on Transportation Electrification, 2020, 6, 821-831.	7.8	52
27	Multiobjective Design Optimization of Five-Phase Halbach Array Permanent-Magnet Machine. IEEE Transactions on Magnetics, 2011, 47, 1658-1666.	2.1	51
28	A New Design for Vibration-Based Electromagnetic Energy Harvesting Systems Using Coil Inductance of Microgenerator. IEEE Transactions on Industry Applications, 2011, 47, 820-830.	4.9	51
29	Design of Halbach-Array-Based Permanent-Magnet Motors With High Acceleration. IEEE Transactions on Industrial Electronics, 2011, 58, 3768-3775.	7.9	46
30	Full-Bridge ZCS-Converter-Based High-Gain Modular DC-DC Converter for PV Integration With Medium-Voltage DC Grids. IEEE Transactions on Energy Conversion, 2019, 34, 302-312.	5.2	42
31	Bidirectional Isolated Current-Source DAB Converter With Extended ZVS/ZCS Range and Reduced Energy Circulation for Storage Applications. IEEE Transactions on Industrial Electronics, 2020, 67, 10552-10563.	7.9	41
32	Thrust Optimization of a Flux-Switching Linear Synchronous Machine With Yokeless Translator. IEEE Transactions on Magnetics, 2013, 49, 1436-1443.	2.1	37
33	A direct AC LED driver with high power factor without the use of passive components. , 2012, , .		36
34	Large-Signal Impedance-Based Modeling and Mitigation of Resonance of Converter-Grid Systems. IEEE Transactions on Sustainable Energy, 2019, 10, 1439-1449.	8.8	36
35	Three-Phase Current-Fed Isolated DC-DC Converter With Zero-Current Switching. IEEE Transactions on Industry Applications, 2017, 53, 242-250.	4.9	30
36	Small-Signal Modeling and Design of Phase-Locked Loops Using Harmonic Signal-Flow Graphs. IEEE Transactions on Energy Conversion, 2020, 35, 600-610.	5.2	28

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37	A New Optimum Power Control Scheme for Low-Power Energy Harvesting Systems. IEEE Transactions on Industry Applications, 2013, 49, 2651-2661.	4.9	27
38	Lighting Up with a Dual-Purpose Driver: A Viable Option for a Light-Emitting Diode Driver for Visible Light Communication. IEEE Industry Applications Magazine, 2017, 23, 51-61.	0.4	27
39	Open-circuit fault tolerant control of five-phase permanent magnet motors with third-harmonic back-EMF. , 2008, , .		25
40	Efficient direct ac-to-dc converters for vibration-based low voltage energy harvesting. , 2008, , .		25
41	On impedance modeling of single-phase voltage source converters. , 2016, , .		24
42	Double-Rotor Flux-Switching Permanent Magnet Machine With Yokeless Stator. IEEE Transactions on Energy Conversion, 2016, 31, 1267-1277.	5.2	22
43	Impedance-Based Prediction of Distortions Generated by Resonance in Grid-Connected Converters. IEEE Transactions on Energy Conversion, 2019, 34, 1264-1275.	5.2	21
44	Optimal Power and Torque Control of a Brushless DC (BLDC) Motor/Generator Drive in Electric and Hybrid Electric Vehicles. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2006, , .	0.0	19
45	A Novel direct AC/DC converter for efficient low voltage energy harvesting. , 2008, , .		19
46	Fault-tolerant control of five-phase PM machines with pentagon connection of stator windings under open-circuit faults. , 2012, , .		19
47	Sequence domain transfer matrix model of three-phase voltage source converters. , 2016, , .		17
48	Efficient low voltage direct AC/DC converters for self-powered wireless sensor nodes and mobile electronics. , 2008, , .		16
49	Optimum Control of a Five-phase Integrated Modular Permanent Magnet Motor Under Normal and Open-Circuit Fault Conditions. , 2007, , .		15
50	Effects of magnet shape on torque characteristics of Interior Permanent Magnet machines. , 2009, , .		15
51	Optimum Fault-Tolerant Control of Multi-phase Permanent Magnet Machines for Open-Circuit and Short-Circuit Faults. IEEE Applied Power Electronics Conference and Exposition, 2007, , .	0.0	14
52	SVM-based direct thrust control of permanent magnet linear synchronous motor with reduced force ripple. , 2011, , .		14
53	IPOP-Connected FB-ZCS DC-DC Converter Modules for Renewable Energy Integration With Medium-Voltage DC Grids. IEEE Transactions on Industry Applications, 2019, 55, 5128-5140.	4.9	13
54	Doubled-sided FRLSM for long-stroke safety-critical applications. , 2011, , .		12

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55	Torque ripple reduction of the modular Interior Permanent Magnet machines using optimum current profiling technique. , 2009, , .		11
56	High voltage normally-off GaN MOSC-HEMTs on silicon substrates for power switching applications. , 2012, , .		11
57	Post-fault control technique for multi-phase PM motor drives under short-circuit faults. , 2013, , .		11
58	Design and control of fault-tolerant permanent magnet machines. , 2013, , .		11
59	Optimal current waveforms for five-phase permanent magnet motor drives under open-circuit fault. , 2008, , .		10
60	Design and Dynamic Simulation of Five Phase Interior Permanent Magnet Machine for Series Hybrid Electric Vehicles. , 2010, , .		10
61	A new single stage AC-DC converter for low voltage electromagnetic energy harvesting. , 2010, , .		10
62	Dual purpose HB-LED driver for illumination and visible light communication. , 2013, , .		10
63	Guest Editorial Optimal Design of Electric Machines. IEEE Transactions on Energy Conversion, 2015, 30, 1143-1143.	5.2	10
64	Low Voltage Energy Harvesting Systems Using Coil Inductance of Electromagnetic Microgenerators. , 2009, , .		9
65	Non-isolated topologies for high step-down offline LED driver applications. , 2012, , .		8
66	Small-signal modeling of single-phase PLLs using harmonic signal-flow graphs. , 2017, , .		8
67	Modified electromagnetic microgenerator design for improved performance of low-voltage energy-harvesting systems. IET Power Electronics, 2013, 6, 1751-1758.	2.1	7
68	Iterative learning control for fault-tolerance in multi-phase permanent-magnet machines. , 2013, , .		6
69	Three-phase current-fed soft-switching DC-DC converter. , 2017, , .		6
70	High-gain soft-switching DC-DC converter with voltage-doubler rectifier modules. , 2017, , .		6
71	Design and analysis of Halbach array permanent magnet motor for high acceleration applications. , 2009, , .		5
72	Low power implementation of maximum energy harvesting scheme for vibration-based electromagnetic microgenerators. , 2011, , .		5

#	ARTICLE	IF	CITATIONS
73	Current-fed Full-Bridge Boost DC-DC Converter with Adaptive Resonant Energy. , 2018, , .		5
74	Extending speed range of five-phase PM machines by changing the stator windings connections. , 2011, , .		4
75	Medium frequency soft switching DC/DC converter for HVDC transmission system. , 2014, , .		4
76	Offshore wind energy systems using high frequency isolated current-fed modular converters. , 2015, , .		4
77	Adaptive Resonant Energy Realization in FB-ZCS DC-DC Converter Using Dual-Capacitor Circuit. , 2019, , .		4
78	FB-ZCS DC-DC Converter With Dual-Capacitor Resonant Circuit for Renewable Energy Integration With MVDC Grids. IEEE Transactions on Industry Applications, 2020, 56, 6792-6802.	4.9	4
79	High-frequency isolated DC-DC converter for offshore wind energy systems. , 2016, , .		3
80	FB-ZCS DC-DC Converter with Adaptive Resonant Energy Using Phase-Shift Frequency Modulation. , 2018, , .		3
81	Active pulse shaping circuit for bandwidth enhancement of high-brightness LEDs using GaN devices. , 2018, , .		3
82	Torque improvement of synchronous reluctance machines by utilizing orthogonal experimental design methodology. , 2008, , .		2
83	Optimal design and prototyping of a five-phase direct-drive permanent magnet linear motor. , 2014, , .		2
84	Three-phase isolated soft-switching DC-DC converter with secondary phase shift modulation. , 2017, , .		2
85	An Energy Efficient Li-Fi Transmitter with Single Inductor Multiple Output LED Driver. , 2019, , .		1
86	A Fault Resilient IPM Motor Drive for Wide Speed Range Operation. Naval Engineers Journal, 2005, 117, 45-51.	0.1	0
87	Implementation and modeling of low power AC-DC converter with indirect feedback. , 2010, , .		0
88	Hybrid start-up strategy for low voltage electromagnetic energy harvesting systems. , 2012, , .		0