Leila Parsa

List of Publications by Year
in descending order

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88 papers	4,970 citations	136950 32 h-index	243625 44 g-index
88 all docs	88 docs citations	88 times ranked	3407 citing authors

#	Article	IF	Citations
1	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
2	FB-ZCS DCâ€“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
3	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
4	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
5	IPOP-Connected FB-ZCS DCâ€“DC Converter Modules for Renewable Energy Integration With Medium-Voltage DC Grids. IEEE Transactions on Industry Applications, 2019, 55, 5128-5140.	4.9	13
6	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
7	Impedance-Based Prediction of Distortions Generated by Resonance in Grid-Connected Converters. IEEE Transactions on Energy Conversion, 2019, 34, 1264-1275.	5.2	21
8	An Energy Efficient Li-Fi Transmitter with Single Inductor Multiple Output LED Driver. , 2019, , .		1
9	Adaptive Resonant Energy Realization in FB-ZCS DC-DC Converter Using Dual-Capacitor Circuit. , 2019, , .		4
10	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
11	Design, Control, and Analysis of a Fault-Tolerant Soft-Switching DCâ€“DC Converter for High-Power High-Voltage Applications. IEEE Transactions on Power Electronics, 2018, 33, 1094-1104.	7.9	57
12	Current-fed Full-Bridge Boost DC-DC Converter with Adaptive Resonant Energy. , 2018, , .		5
13	FB-ZCS DC-DC Converter with Adaptive Resonant Energy Using Phase-Shift Frequency Modulation. , 2018, , .		3
14	Active pulse shaping circuit for bandwidth enhancement of high-brightness LEDs using GaN devices. , 2018, , .		3
15	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
16	Three-phase isolated soft-switching DC-DC converter with secondary phase shift modulation. , 2017, , .		2
17	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
18	Three-phase current-fed soft-switching DC-DC converter. , 2017, , .		6

#	Article	IF	Citations
19	Three-Phase Current-Fed Isolated DCâ€“DC Converter With Zero-Current Switching. IEEE Transactions on Industry Applications, 2017, 53, 242-250.	4.9	30
20	High-gain soft-switching DC-DC converter with voltage-doubler rectifier modules. , 2017, , .		6
21	Small-signal modeling of single-phase PLLs using harmonic signal-flow graphs. , 2017, , .		8
22	High-frequency isolated DC-DC converter for offshore wind energy systems. , 2016, , .		3
23	On impedance modeling of single-phase voltage source converters. , 2016, , .		24
24	Sequence domain transfer matrix model of three-phase voltage source converters. , 2016, , .		17
25	Double-Rotor Flux-Switching Permanent Magnet Machine With Yokeless Stator. IEEE Transactions on Energy Conversion, 2016, 31, 1267-1277.	5.2	22
26	Series-Input Parallel-Output Modular-Phase DCâ€“DC Converter With Soft-Switching and High-Frequency Isolation. IEEE Transactions on Power Electronics, 2016, 31, 111-119.	7.9	153
27	A Scalable <italic>N</italic>-Color LED Driver Using Single Inductor Multiple Current Output Topology. IEEE Transactions on Power Electronics, 2016, 31, 3773-3783.	7.9	52
28	Offshore wind energy systems using high frequency isolated current-fed modular converters. , 2015, , .		4
29	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
30	Guest Editorial Optimal Design of Electric Machines. IEEE Transactions on Energy Conversion, 2015, 30, 1143-1143.	5.2	10
31	Global Fault-Tolerant Control Technique for Multiphase Permanent-Magnet Machines. IEEE Transactions on Industry Applications, 2015, 51, 178-186.	4.9	173
32	Medium frequency soft switching DC/DC converter for HVDC transmission system. , 2014, , .		4
33	Optimal design and prototyping of a five-phase direct-drive permanent magnet linear motor. , 2014, , .		2
34	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
35	Trends in Electrical Machines Control: Samples for Classical, Sensorless, and Fault-Tolerant Techniques. IEEE Industrial Electronics Magazine, 2014, 8, 43-55.	2.6	96
36	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

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37	Automotive Electric Propulsion Systems With Reduced or No Permanent Magnets: An Overview. IEEE Transactions on Industrial Electronics, 2014, 61, 5696-5711.	7.9	607
38	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
39	Post-fault control technique for multi-phase PM motor drives under short-circuit faults. , 2013, , .		11
40	A New Optimum Power Control Scheme for Low-Power Energy Harvesting Systems. IEEE Transactions on Industry Applications, 2013, 49, 2651-2661.	4.9	27
41	Design and control of fault-tolerant permanent magnet machines. , 2013, , .		11
42	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
43	Dual purpose HB-LED driver for illumination and visible light communication. , 2013, , .		10
44	Thrust Optimization of a Flux-Switching Linear Synchronous Machine With Yokeless Translator. IEEE Transactions on Magnetics, 2013, 49, 1436-1443.	2.1	37
45	Modified electromagnetic microgenerator design for improved performance of lowâ€voltage energyâ€harvesting systems. IET Power Electronics, 2013, 6, 1751-1758.	2.1	7
46	Iterative learning control for fault-tolerance in multi-phase permanent-magnet machines. , 2013, , .		6
47	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
48	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
49	Hybrid start-up strategy for low voltage electromagnetic energy harvesting systems. , 2012, , .		0
50	High voltage normally-off GaN MOSC-HEMTs on silicon substrates for power switching applications. , 2012, , .		11
51	Non-isolated topologies for high step-down offline LED driver applications. , 2012, , .		8
52	A direct AC LED driver with high power factor without the use of passive components. , 2012, , .		36
53	Fault-tolerant control of five-phase PM machines with pentagon connection of stator windings under open-circuit faults. , 2012, , .		19
54	Multiobjective Design Optimization of Five-Phase Halbach Array Permanent-Magnet Machine. IEEE Transactions on Magnetics, 2011, 47, 1658-1666.	2.1	51

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55	Extending speed range of five-phase PM machines by changing the stator windings connections. , 2011, , .		4
56	Design and Implementation of a Direct ACâ€“DC Boost Converter for Low-Voltage Energy Harvesting. IEEE Transactions on Industrial Electronics, 2011, 58, 2387-2396.	7.9	77
57	Doubled-sided FRLSM for long-stroke safety-critical applications. , 2011, , .		12
58	SVM-based direct thrust control of permanent magnet linear synchronous motor with reduced force ripple. , 2011, , .		14
59	An Efficient High-Step-Up Interleaved DCâ€“DC Converter With a Common Active Clamp. IEEE Transactions on Power Electronics, 2011, 26, 66-78.	7.9	213
60	Low power implementation of maximum energy harvesting scheme for vibration-based electromagnetic microgenerators. , 2011, , .		5
61	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
62	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
63	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
64	Design of Halbach-Array-Based Permanent-Magnet Motors With High Acceleration. IEEE Transactions on Industrial Electronics, 2011, 58, 3768-3775.	7.9	46
65	Design and Dynamic Simulation of Five Phase Interior Permanent Magnet Machine for Series Hybrid Electric Vehicles. , 2010, , .		10
66	A new single stage AC-DC converter for low voltage electromagnetic energy harvesting. , 2010, , .		10
67	An Efficient ACâ€“DC Step-Up Converter for Low-Voltage Energy Harvesting. IEEE Transactions on Power Electronics, 2010, 25, 2188-2199.	7.9	92
68	Implementation and modeling of low power AC-DC converter with indirect feedback. , 2010, , .		0
69	Torque ripple reduction of the modular Interior Permanent Magnet machines using optimum current profiling technique. , 2009, , .		11
70	Design and analysis of Halbach array permanent magnet motor for high acceleration applications. , 2009, , .		5
71	Effects of magnet shape on torque characteristics of Interior Permanent Magnet machines. , 2009, , .		15
72	Low Voltage Energy Harvesting Systems Using Coil Inductance of Electromagnetic Microgenerators. , 2009, , .		9

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73	Optimal current waveforms for five-phase permanent magnet motor drives under open-circuit fault. , 2008, , .		10
74	Open-circuit fault tolerant control of five-phase permanent magnet motors with third-harmonic back-EMF. , 2008, , .		25
75	Efficient direct ac-to-dc converters for vibration-based low voltage energy harvesting. , 2008, , .		25
76	A Novel direct AC/DC converter for efficient low voltage energy harvesting. , 2008, , .		19
77	Efficient low voltage direct AC/DC converters for self-powered wireless sensor nodes and mobile electronics. , 2008, , .		16
78	Interior Permanent Magnet Motors With Reduced Torque Pulsation. IEEE Transactions on Industrial Electronics, 2008, 55, 602-609.	7.9	108
79	An Optimal Control Technique for Multiphase PM Machines Under Open-Circuit Faults. IEEE Transactions on Industrial Electronics, 2008, 55, 1988-1995.	7.9	197
80	Torque improvement of synchronous reluctance machines by utilizing orthogonal experimental design methodology. , 2008, , .		2
81	Five-Phase Interior Permanent-Magnet Motors With Low Torque Pulsation. IEEE Transactions on Industry Applications, 2007, 43, 40-46.	4.9	61
82	Sensorless Direct Torque Control of Five-Phase Interior Permanent-Magnet Motor Drives. IEEE Transactions on Industry Applications, 2007, 43, 952-959.	4.9	140
83	Fault-Tolerant Interior-Permanent-Magnet Machines for Hybrid Electric Vehicle Applications. IEEE Transactions on Vehicular Technology, 2007, 56, 1546-1552.	6.3	268
84	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
85	Optimum Control of a Five-phase Integrated Modular Permanent Magnet Motor Under Normal and Open-Circuit Fault Conditions. , 2007, , .		15
86	A Novel High Efficiency High Power Interleaved Coupled-Inductor Boost DC-DC Converter for Hybrid and Fuel Cell Electric Vehicle. , 2007, , .		58
87	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
88	A Fault Resilient IPM Motor Drive for Wide Speed Range Operation. Naval Engineers Journal, 2005, 117, 45-51.	0.1	0