

Bulent Sarlioglu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8773453/publications.pdf>

Version: 2024-02-01

188
papers

3,916
citations

230014

27
h-index

190340

53
g-index

188
all docs

188
docs citations

188
times ranked

3181
citing authors

#	ARTICLE	IF	CITATIONS
1	Hysteresis Loss in NdFeB Permanent Magnets in a Permanent Magnet Synchronous Machine. IEEE Transactions on Industrial Electronics, 2022, 69, 121-129.	5.2	15
2	Evaluation of the Skewing Effect on the Electromagnetic and Fluid Mechanics Performance of an Integrated Motor-Compressor. IEEE Transactions on Industry Applications, 2022, 58, 273-283.	3.3	1
3	Analysis and Suppression of Conducted Common-Mode EMI in WBG-Based Current-Source Converter Systems. IEEE Transactions on Transportation Electrification, 2022, 8, 2133-2148.	5.3	12
4	A Seven-Switch Current-Source Inverter Using Wide Bandgap Dual-Gate Bidirectional Switches. IEEE Transactions on Industry Applications, 2022, 58, 3721-3737.	3.3	15
5	Prediction of Failure Path Current for Synchronous Reluctance and Interior Permanent Magnet Synchronous Machines Accounting for Saturation. IEEE Transactions on Industry Applications, 2022, 58, 4625-4636.	3.3	2
6	High-Frequency Modeling and Inter-Turn Voltage Distribution Analysis of a Modular Electric Machine for Electric Aircraft Propulsion. , 2022, , .		2
7	PCB Winding for Electric Machines with Integrated 3D printed Heat Exchanger. , 2022, , .		4
8	d and Q -Axis Inductance Estimation and Self-Sensing Condition Monitoring Using 45° Angle High-Frequency Injection. IEEE Transactions on Industry Applications, 2021, 57, 506-515.	3.3	17
9	Design and Testing of a Modular High-Speed Permanent-Magnet Machine for Aerospace Propulsion. , 2021, , .		8
10	Analysis of EMI Source in the Balanced Inverter with Desynchronization of Gate Signals. , 2021, , .		2
11	Novel Design of Integrated Motor-Compressor Using Flux Reversal Permanent Magnet Machine Topology. , 2021, , .		0
12	Analysis of Inter-turn Short Circuits in Interior Permanent Magnet Synchronous Machines, Including Saturation and Closed-loop Operation. , 2021, , .		0
13	Cooling Design of Integrated Motor Drives Using Analytical Thermal Model, Finite Element Analysis, and Computational Fluid Dynamics. , 2021, , .		7
14	Performance Evaluation and Loss Modeling of WBG Devices based on a Novel Double-Pulse Test Method for Current Source Inverter. , 2021, , .		8
15	Design of High Power Density 100 kW Surface Permanent Magnet Machine with No Heavy Rare Earth Material Using Current Source Inverter for Traction Application. , 2021, , .		1
16	Evaluation of the Self-Cooling Performance of a Flux-Switching Permanent Magnet Machine With Airfoil-Shaped Rotor. IEEE Transactions on Industry Applications, 2021, 57, 3710-3721.	3.3	10
17	Real-Time Loss Minimizing Control of Induction Machines for Dynamic Load Profiles Under Deadbeat-Direct Torque and Flux Control. IEEE Transactions on Industry Applications, 2021, 57, 3754-3762.	3.3	6
18	Design and Evaluation of the Performance of an Integrated Flux-Switching Motor-Compressor With Airfoil-Shaped Rotor. IEEE Transactions on Transportation Electrification, 2021, 7, 1573-1588.	5.3	6

#	ARTICLE	IF	CITATIONS
19	Current-Source Inverter Integrated Motor Drives Using Dual-Gate Four-Quadrant Wide-Bandgap Power Switches. IEEE Transactions on Industry Applications, 2021, 57, 5183-5198.	3.3	31
20	Ceramic 3-D Printed Direct Winding Heat Exchangers for Thermal Management of Concentrated Winding Electric Machines. IEEE Transactions on Industry Applications, 2021, 57, 5829-5840.	3.3	17
21	Design and Performance Evaluation of a High-Speed Switched-Reluctance Integrated Motor-Compressor. , 2021, , .		0
22	Radial and Axial Inlet and Outlet Design for End Winding Cooling of High-Speed Integrated Flux-Switching Motor-Compressor. , 2021, , .		3
23	Integration and Cooling Strategies for WBG-based Current-Source Inverters-Based Motor Drives. , 2021, , .		4
24	A Fault Tolerant Modulation Scheme to Eliminate DC Offset and Harmonic Fault Currents in the Balanced Inverter Under Switch Short-Circuits Faults. , 2021, , .		0
25	Comprehensive Efficiency Analysis of Current Source Inverter Based on CSI-Type Double Pulse Test and Genetic Algorithm. , 2021, , .		7
26	A Balanced Current-Source Inverter and its dc-Link Shunted Variant for Common-Mode Voltage Cancellation. , 2021, , .		1
27	Analytical Prediction and Multiconstrained Nonlinear Optimization of Slotted Linear PM Motors Taking Into Account Two-Dimensional End Effects. IEEE Transactions on Industrial Electronics, 2020, 67, 2965-2976.	5.2	14
28	Design and Testing of Low Pole Dual-Stator Flux-Switching Permanent Magnet Machine for Electric Vehicle Applications. IEEE Transactions on Vehicular Technology, 2020, 69, 1464-1472.	3.9	10
29	Design of Single-Turn Air-Core Integrated Planar Inductor for Improved Thermal Performance of GaN HEMT-Based Synchronous Buck Converter. IEEE Transactions on Industry Applications, 2020, 56, 1543-1552.	3.3	13
30	Prediction of Failure Path Current for Synchronous Reluctance and Interior Permanent Magnet Synchronous Machines Accounting for Saturation. , 2020, , .		5
31	Analysis of Modulation Schemes for Balanced Inverter. , 2020, , .		2
32	Study of Performance of Balanced Inverter under Influence of Power Loop Stray Inductance. , 2020, , .		1
33	An H7 Current-Source Inverter using Wide Bandgap Bidirectional Switches to Achieve High Efficiency and Low Conducted Common-Mode EMI. , 2020, , .		8
34	Selective-Harmonic Spatial Repetitive Control for PWM Converter Operation over a Wide Fundamental Frequency Range. , 2020, , .		2
35	Design of a 100 kW Surface Permanent Magnet Machine with Wide Constant Power Speed Ratio for Traction Applications. , 2020, , .		6
36	Current Source Inverter Based Large Constant Power Speed Ratio SPM Machine Drive for Traction Applications. , 2020, , .		13

#	ARTICLE	IF	CITATIONS
37	A Simple and Robust Controller Design for High-Frequency WBG-Based Current-Source-Inverter-Fed AC Motor Drive. , 2020, , .		10
38	Common-Mode EMI Examination of Three-phase Voltage-Source and Current-Source Converters Systems using WBG Devices. , 2020, , .		6
39	High-Frequency Evaluation of Two-Level Voltage-Source and Current-Source Inverters with Different Output Cables. , 2020, , .		12
40	Integrated Motor Drive using Soft-Switching Current-Source Inverters with SiC- and GaN-based Bidirectional Switches. , 2020, , .		20
41	Discrete-Time Torque Control of High-Speed SPM Machine For Aircraft Electric Propulsion. , 2020, , .		8
42	Cooling of Windings in Electric Machines via 3-D Printed Heat Exchanger. IEEE Transactions on Industry Applications, 2020, 56, 4718-4726.	3.3	47
43	Analytical Calculation of Maximum Mechanical Stress on the Rotor of Interior Permanent-Magnet Synchronous Machines. IEEE Transactions on Industry Applications, 2020, 56, 1321-1331.	3.3	16
44	Influence of winding topologies and encapsulation materials on FSPM machine thermal performance. IET Electric Power Applications, 2020, 14, 1604-1611.	1.1	3
45	Comparison of High-Frequency Impedance of AC Machines with Circumferential and Toroidal Winding Topologies for SiC MOSFET Machine Drives. , 2020, , .		3
46	Design of a Novel Integrated Switched Reluctance Motor-Compressor. , 2020, , .		2
47	Modulation Schemes for Balanced Inverter under Single Upper/Lower Switch Fault Conditions. , 2020, , .		1
48	Investigation of the Effects of Skew of an Integrated Flux-Switching Motor-Compressor. , 2020, , .		7
49	Power Control of Hybrid Grid-Connected Inverter to Improve Power Quality. , 2020, , .		1
50	Evaluation of Sensorless Techniques for Surface Permanent-Magnet Integrated Motor Drive using Current-Source Inverter. , 2020, , .		2
51	Comprehensive Efficiency Analysis of Current Source Inverter Based SPM Machine Drive System for Traction Applications. , 2020, , .		14
52	Saliency based Self-Sensing Enhanced Operating Condition Monitoring Using High-Frequency Injection Under Intentional Magnetic Saturation. , 2019, , .		4
53	Comparative Study of 6/4 FSPM and SPM Machine for High-Speed Applications. , 2019, , .		10
54	Comparison of Modular PM Propulsion Machines for High Power Density. , 2019, , .		16

#	ARTICLE	IF	CITATIONS
55	Design of a Novel Axial Flux-Switching PM Machine Integrated with Centrifugal Compressor with Radial Impellers. , 2019, , .		2
56	Effects of Winding and Slot-Pole Configurations on Sizing of Permanent Magnet Synchronous Machines. , 2019, , .		3
57	Design of High-Performance Toroidal DC-link Inductor for Current-Source Inverters. , 2019, , .		18
58	Single-turn Air-core Integrated Planar Inductor for GaN HEMT-based Zero-Voltage Switching Synchronous Buck Converter. , 2019, , .		5
59	Characterization and Implementation of Hybrid Reverse-Voltage-Blocking and Bidirectional Switches using WBG Devices in Emerging Motor Drive Applications. , 2019, , .		30
60	Sizing, Analysis, and Verification of Axial Flux-Switching Permanent Magnet Machine. IEEE Transactions on Industry Applications, 2019, 55, 3512-3521.	3.3	5
61	Development of Current-Source-Inverter-based Integrated Motor Drives using Wide-Bandgap Power Switches. , 2019, , .		11
62	Design of Conical Rotor Flux-Switching Permanent Magnet Machine with Improved Flux-Weakening Capability for Traction Applications. , 2019, , .		2
63	Modular 2n-phase Inverter (M2I) Topology with Novel Phase Current Injection Scheme for Fault-tolerant Multiphase Electric Machine Drives. , 2019, , .		0
64	Ceramic 3D Printed Direct Winding Heat Exchangers for Improving Electric Machine Thermal Management. , 2019, , .		29
65	Investigation of the Self-Cooling Characteristics of a Novel Flux-Switching Permanent Magnet Machine. , 2019, , .		10
66	Comparative Analysis on Performance of Power Quality Improvement of Grid-Connected Inverters. , 2019, , .		8
67	An H8 Current-Source Inverter using Wide Bandgap Bidirectional Switches. , 2019, , .		5
68	Real-time Loss Minimizing Control of Induction Machines for Dynamic Load Profiles under Deadbeat-Direct Torque and Flux Control. , 2019, , .		6
69	Operation and Analysis of Current-Source Inverters using Dual-Gate Four-Quadrant Wide-Bandgap Power Switches. , 2019, , .		29
70	Synchronous Reluctance Rotor Design Considerations based on Winding Configuration. , 2019, , .		6
71	A Comparative Study of Coreless-Type PM Linear Synchronous Machines With Non-Overlapping Windings. IEEE Transactions on Industry Applications, 2019, 55, 2481-2489.	3.3	10
72	Fast and Systematic Design Optimization of Surface-Mounted PM Machines Using Advanced Analytical Models and Subharmonic Elimination Methods. IEEE Transactions on Magnetics, 2019, 55, 1-16.	1.2	20

#	ARTICLE	IF	CITATIONS
73	Influence of Rotor Tooth Shaping on Cogging Torque of Axial Flux-Switching Permanent Magnet Machine. IEEE Transactions on Industry Applications, 2019, 55, 1290-1298.	3.3	12
74	3-D Performance Analysis and Multiobjective Optimization of Coreless-Type PM Linear Synchronous Motors. IEEE Transactions on Industrial Electronics, 2018, 65, 1855-1864.	5.2	45
75	Closed-Form Solutions Using Offset Angle for Winding Configurations of Flux-Switching Permanent Magnet Machines. IEEE Transactions on Industry Applications, 2018, 54, 3226-3234.	3.3	4
76	Analysis and Comparative Study of Flux Weakening Capability in Fractional-Slot Concentrated Windings. IEEE Transactions on Energy Conversion, 2018, 33, 1025-1035.	3.7	19
77	Advantages and Characteristic Analysis of Slotless Rotary PM Machines in Comparison With Conventional Laminated Design Using Statistical Technique. IEEE Transactions on Transportation Electrification, 2018, 4, 517-524.	5.3	13
78	New Method for Common Mode Voltage Cancellation in Motor Drives: Concept, Realization, and Asymmetry Influence. IEEE Transactions on Power Electronics, 2018, 33, 1188-1201.	5.4	49
79	Comparative Performance Analysis of Reference Voltage-Controlled Pulse Width Modulation for High-Speed Single-Phase Brushless DC Motor Drive. IEEE Transactions on Power Electronics, 2018, 33, 4560-4568.	5.4	16
80	Modeling and Investigation on Electromagnetic Noise in PM Motors With Single- and Double-Layer Concentrated Winding for EV and HEV Application. IEEE Transactions on Transportation Electrification, 2018, 4, 292-302.	5.3	34
81	Analytical Modeling and Optimization for Electromagnetic Performances of Fractional-Slot PM Brushless Machines. IEEE Transactions on Industrial Electronics, 2018, 65, 4017-4027.	5.2	35
82	Design and Optimization of a Novel Dual-Rotor Hybrid PM Machine for Traction Application. IEEE Transactions on Industrial Electronics, 2018, 65, 1762-1771.	5.2	59
83	Investigation of Rotor Structure Influence on the Windage Loss and Efficiency of FSPM Machine. , 2018, , .		6
84	Current-Source Inverters for Integrated Motor Drives using Wide-Bandgap Power Switches. , 2018, , .		37
85	Influences of Manufacturing Tolerance on Performance of Axial Flux-Switching Permanent Magnet Machine. , 2018, , .		1
86	Methodology for Evaluating Potential Benefits and Economic Value of Residential Photovoltaic and Battery Energy Storage System. , 2018, , .		2
87	Design of a Flux-Switching PM Machine with Axial Fan Capability. , 2018, , .		5
88	Comparison of Dual-stator 6/4 FSPM Machine with Overlapping and Non-Overlapping Winding. , 2018, , .		3
89	Comparative Evaluation of Conducted Common-Mode EMI in Voltage-Source and Current-Source Inverters using Wide-Bandgap Switches. , 2018, , .		48
90	Cooling of Windings in Electric Machines via 3D Printed Heat Exchanger. , 2018, , .		31

#	ARTICLE	IF	CITATIONS
91	Influence of Rotor Pole Thickness on Optimal Combination of Stator Slot and Rotor Pole Numbers in Integrated Flux-Switching Motor-Compressor. , 2018, , .		7
92	Development of High-Frequency WBG Power Modules with Reverse-Voltage-Blocking Capability for an Integrated Motor Drive using a Current-Source Inverter. , 2018, , .		27
93	Rotor Thermal Design for Electric Machines: Challenges and Opportunities. , 2018, , .		14
94	Performance Analysis of C-core and E-core Flux-Switching Permanent Magnet Machine With Airfoil-Shaped Rotor. , 2018, , .		0
95	Design and analysis of integrated planar inductor for GaN HEMT-based zero-voltage switching synchronous buck converter. , 2018, , .		6
96	New Configuration of Multifunctional Grid-Connected Inverter to Improve Both Current-Based and Voltage-Based Power Quality. IEEE Transactions on Industry Applications, 2018, 54, 6374-6382.	3.3	52
97	A Review of Integrated Motor Drive and Wide-Bandgap Power Electronics for High-Performance Electro-Hydrostatic Actuators. IEEE Transactions on Transportation Electrification, 2018, 4, 684-693.	5.3	89
98	Analysis of Overhang Effects Using Conductor Separation Method in Coreless-Type PM Linear Machines. IEEE Transactions on Magnetics, 2018, 54, 1-4.	1.2	7
99	Torque Ripple Minimization Control Technique of High-Speed Single-Phase Brushless DC Motor for Electric Turbocharger. IEEE Transactions on Vehicular Technology, 2018, 67, 10357-10365.	3.9	38
100	Modeling of Interior Permanent Magnet Machine Considering Saturation, Cross Coupling, Spatial Harmonics, and Temperature Effects. IEEE Transactions on Transportation Electrification, 2017, 3, 682-693.	5.3	55
101	Closed-form Method for Multi-stage Axial Flux Permanent Magnet Machine: Design and Analysis. Electric Power Components and Systems, 2017, 45, 785-797.	1.0	8
102	Comparative Analysis of Torque Compensation Control Algorithms of Interior Permanent Magnet Machines for Automotive Applications Considering the Effects of Temperature Variation. IEEE Transactions on Transportation Electrification, 2017, 3, 668-681.	5.3	42
103	Comparative Analysis on Conducted CM EMI Emission of Motor Drives: WBG Versus Si Devices. IEEE Transactions on Industrial Electronics, 2017, 64, 8353-8363.	5.2	202
104	Common-Mode Voltage Cancellation in PWM Motor Drives With Balanced Inverter Topology. IEEE Transactions on Industrial Electronics, 2017, 64, 2683-2688.	5.2	99
105	Analytical Calculation of Back EMF Waveform for Linear PM Motors in Slotted and Slotless Structures. IEEE Transactions on Magnetics, 2017, 53, 1-10.	1.2	37
106	Thermal management and cooling of windings in electrical machines for electric vehicle and traction application. , 2017, , .		12
107	Reviews on grid-connected inverter, utility-scaled battery energy storage system, and vehicle-to-grid application - challenges and opportunities. , 2017, , .		32
108	Investigation of electromagnetic noise on pole and slot number combinations with possible fractional-slot concentrated windings. , 2017, , .		2

#	ARTICLE	IF	CITATIONS
109	Analysis of the influence of temperature variation on performance of flux-switching permanent magnet machines for traction applications. , 2017, , .		5
110	Contributions on the CAD-based design and optimization of flux switching permanent magnet machines. , 2017, , .		1
111	Design, analysis, and prototyping of axial flux-switching permanent magnet machine. , 2017, , .		4
112	Adoption of wide bandgap technology in hybrid/electric vehicles-opportunities and challenges. , 2017, , .		21
113	Compensation control algorithm for IPM machines considering temperature effects based on online multi-parameter estimation. , 2017, , .		3
114	Concept of Integration of Axial-Flow Compression Into Electric Machine Design. IEEE Transactions on Transportation Electrification, 2017, 3, 118-129.	5.3	20
115	Novel Six-Slot Four-Pole Axial Flux-Switching Permanent Magnet Machine for Electric Vehicle. IEEE Transactions on Transportation Electrification, 2017, 3, 108-117.	5.3	35
116	Overview of Electric Turbocharger and Supercharger for Downsized Internal Combustion Engines. IEEE Transactions on Transportation Electrification, 2017, 3, 36-47.	5.3	46
117	A Case Study on Common Mode Electromagnetic Interference Characteristics of GaN HEMT and Si MOSFET Power Converters for EV/HEVs. IEEE Transactions on Transportation Electrification, 2017, 3, 168-179.	5.3	52
118	Reduction of Common Mode Voltage and Conducted EMI Through Three-Phase Inverter Topology. IEEE Transactions on Power Electronics, 2017, 32, 1720-1724.	5.4	131
119	Analysis of temperature effects on performance of spoke-type interior permanent magnet machines. , 2017, , .		0
120	Comparison of dual structure axial flux-switching permanent magnet machines. , 2017, , .		4
121	Thermal analysis of a novel dual-stator 6/4 flux-switching permanent magnet machine. , 2017, , .		5
122	Electromagnetic and thermodynamic design of a novel integrated flux-switching motor-compressor with airfoil-shaped rotor. , 2017, , .		9
123	A Double-ended Converter System with Two Different DC-buses Using Open Winding Permanent Magnet Machine for Traction Applications. Electric Power Components and Systems, 2017, 45, 1729-1738.	1.0	2
124	Reducing reverse conduction and switching losses in GaN HEMT-based high-speed permanent magnet brushless dc motor drive. , 2017, , .		25
125	Performance evaluation of shunt-series switched multi-functional grid-connected inverter for voltage regulation. , 2017, , .		4
126	Nonlinear analytical model of an inductance considering saturation and temperature variation. , 2017, , .		10

#	ARTICLE	IF	CITATIONS
127	Analysis of dual-stator 6/4 FSPM and IPM machines under internal short circuits. , 2017, , .		1
128	Three-part hybrid rotor PM machine with variable magnetization state. , 2017, , .		5
129	Novel design of multistage integrated motor-compressor. , 2017, , .		1
130	Performance analysis of a high-speed integrated flux-switching motor-compressor. , 2017, , .		4
131	Design of a novel integrated motor-compressor machine with GaN-based inverters. , 2017, , .		14
132	A novel dual-rotor hybrid machine with synchronous reluctance and surface permanent magnet rotors. , 2017, , .		3
133	Torque ripple reduction and mechanical tolerance analysis of a novel dual-stator 6/4 flux-switching permanent magnet machine. , 2017, , .		1
134	Comparative study of coreless-type PM linear synchronous machines with non-overlapping windings. , 2017, , .		3
135	Novel 6-slot 4-pole dual-stator flux-switching permanent magnet machine comparison studies for high-speed applications. , 2016, , .		13
136	Stator tooth and rotor pole shaping for low pole flux switching permanent magnet machines to reduce even order harmonics in flux linkage. , 2016, , .		3
137	Mechanical design method for a high-speed surface permanent magnet rotor. , 2016, , .		2
138	A novel flux-switching permanent magnet motor-compressor with integrated airfoil-shaped rotor design. , 2016, , .		5
139	Cogging torque minimization with rotor tooth shaping in axial flux-switching permanent magnet machine. , 2016, , .		3
140	Novel permanent magnet machines with integrated fluid dynamic design for compression applications. , 2016, , .		3
141	Performance evaluation of a hybrid-excited flux-switching PM motor for traction applications. , 2016, , .		1
142	A Novel 6/4 Flux-Switching Permanent Magnet Machine Designed for High-Speed Operations. IEEE Transactions on Magnetics, 2016, 52, 1-9.	1.2	25
143	Design and Performance Characterization of a Novel Low-Pole Dual-Stator Flux-Switching Permanent Magnet Machine for Traction Application. IEEE Transactions on Industry Applications, 2016, 52, 4304-4314.	3.3	28
144	Effect of grid inductance on grid current quality of parallel grid-connected inverter system with output LCL filter and closed-loop control. , 2016, , .		8

#	ARTICLE	IF	CITATIONS
145	Modeling three-phase grid-connected inverter system using complex vector in synchronous dq reference frame and analysis on the influence of tuning parameters of synchronous frame PI controller. , 2016, , .		6
146	Double-ended Synchronous Reluctance Motor Drive with Extended Constant Power Speed Ratio and Increased Power Factor. Electric Power Components and Systems, 2016, 44, 369-378.	1.0	2
147	Reactive power control of grid-connected inverter in vehicle-to-grid application for voltage regulation. , 2016, , .		3
148	High-speed surface permanent magnet machines - rotor design analysis, considerations, and challenges. , 2016, , .		3
149	Design of high-speed toroidal winding surface PM machine with SiC-based inverters. , 2016, , .		5
150	Design optimization for reducing harmonic distortion of flux linkage in low pole flux-switching permanent magnet machines. , 2016, , .		1
151	Comprehensive Study of the Performance of SiC MOSFET-Based Automotive DCâ€“DC Converter Under the Influence of Parasitic Inductance. IEEE Transactions on Industry Applications, 2016, 52, 5100-5111.	3.3	72
152	Reactive power compensation of grid-connected inverter in vehicle-to-grid application to mitigate balanced grid voltage sag. , 2016, , .		18
153	Electrification of turbocharger and supercharger for downsized internal combustion engines and hybrid electric vehicles-benefits and challenges. , 2016, , .		9
154	New perspective to understand winding configurations of even and odd numbers of pole flux-switching permanent magnet machine. , 2016, , .		2
155	Three-phase common mode inductor design and size minimization. , 2016, , .		10
156	Performance evaluations of capacitor-switched PSFB converter with SiC MOSFETs. , 2016, , .		0
157	Deadtime Effect on GaN-Based Synchronous Boost Converter and Analytical Model for Optimal Deadtime Selection. IEEE Transactions on Power Electronics, 2016, 31, 601-612.	5.4	59
158	Rotor Unbalanced Magnetic Force in Flux-switching Permanent Magnet Machines Due to Static and Dynamic Eccentricity. Electric Power Components and Systems, 2016, 44, 336-342.	1.0	14
159	High-Speed Electric Machines: Challenges and Design Considerations. IEEE Transactions on Transportation Electrification, 2016, 2, 2-13.	5.3	121
160	Assessment of high-speed multi-megawatt electric machines. , 2015, , .		7
161	Novel dual-rotor single-stator axial flux switching permanent magnet machine with even harmonic elimination topology. , 2015, , .		9
162	Design of high-speed machines using silicon-carbide based inverters. , 2015, , .		3

#	ARTICLE	IF	CITATIONS
163	Benchmarking of electric and hybrid vehicle electric machines, power electronics, and batteries. , 2015, , .		21
164	Design and performance characterization of a novel low-pole dual-stator flux switching permanent magnet machine. , 2015, , .		0
165	A novel dual-stator flux switching permanent magnet machine with six stator slots and four rotor poles configuration. , 2015, , .		13
166	Closed-form Solution of Axial Flux Permanent Magnet Machines with a Traction Application Study. IEEE Transactions on Industry Applications, 2015, , 1-1.	3.3	8
167	Torque ripple minimization via PWM control technique with GaN-based motor drive for high speed single phase brushless DC motor. , 2015, , .		5
168	Reducing Switching Losses in BLDC Motor Drives by Reducing Body Diode Conduction of MOSFETs. IEEE Transactions on Industry Applications, 2015, 51, 1864-1871.	3.3	14
169	Harmonic Analysis of Low-Stator-Slot and Rotor-Pole Combination FSPM Machine Topology for High Speed. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	25
170	Partial Irreversible Demagnetization Assessment of Flux-Switching Permanent Magnet Machine Using Ferrite Permanent Magnet Material. IEEE Transactions on Magnetics, 2015, 51, 1-9.	1.2	31
171	More Electric Aircraft: Review, Challenges, and Opportunities for Commercial Transport Aircraft. IEEE Transactions on Transportation Electrification, 2015, 1, 54-64.	5.3	821
172	A novel design and performance characterization of a very high current low voltage dc-dc converter for application in micro and mild hybrid vehicles. , 2015, , .		4
173	Performance Assessment of High-speed Flux-switching Permanent Magnet Machine Using Ferrite and Rare Earth Permanent Magnet Materials. Electric Power Components and Systems, 2015, 43, 711-720.	1.0	17
174	Investigation of effect of slot opening on fractional slot and integer slot axial flux permanent magnet machine. , 2015, , .		1
175	Minimizing switching losses in high switching frequency GaN-based synchronous buck converter with zero-voltage resonant-transition switching. , 2015, , .		17
176	Analysis of High-Speed PCB With SiC Devices by Investigating Turn-Off Overvoltage and Interconnection Inductance Influence. IEEE Transactions on Transportation Electrification, 2015, 1, 118-125.	5.3	53
177	Study of stability and power quality of parallel grid-connected inverters for vehicle-to-grid application. , 2015, , .		0
178	Study of the switching performance and EMI signature of SiC MOSFETs under the influence of parasitic inductance in an automotive DC-DC converter. , 2015, , .		15
179	GaN-based single phase brushless DC motor drive for high-speed applications. , 2014, , .		10
180	Analysis of flux switching permanent magnet machine design for high-speed applications. , 2014, , .		22

#	ARTICLE	IF	CITATIONS
181	Analysis of high-speed PCB with SiC devices by investigating turn-off overvoltage and interconnection inductance influence. , 2014, , .		7
182	Investigating the Influence of Interconnection Parasitic Inductance on the Performance of SiC Based DC-DC Converters in Hybrid Vehicles. , 2014, , .		6
183	Efficiency characterization and thermal study of GaN based 1 kW inverter. , 2014, , .		21
184	Comprehensive Efficiency, Weight, and Volume Comparison of SiC- and Si-Based Bidirectional DC-DC Converters for Hybrid Electric Vehicles. IEEE Transactions on Vehicular Technology, 2014, 63, 3001-3010.	3.9	147
185	Closed-form solution for winding types of axial flux permanent magnet machines. , 2014, , .		5
186	Core loss estimation of high speed electric machines: An assessment. , 2013, , .		7
187	Advances in AC-DC power conversion topologies for More Electric Aircraft. , 2012, , .		18
188	A new course on control of wind power generation systems using analysis and simulation. , 2012, , .		2