Ayman Abdel-Khalik

List of Publications by Year
in descending order

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207	3,559	136950	189892
papers	citations	32	50
		h-index	g-index

209	209	209	2316
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Three-Phase Nonisolated Pseudo-Six-Phase-Based Integrated Onboard Battery Charger for Electric Vehicles. IEEE Transactions on Transportation Electrification, 2023, 9, 1300-1310.	7.8	2
2	Predictive current control based pseudo six-phase induction motor drive. AEJ - Alexandria Engineering Journal, 2022, 61, 3937-3948.	6.4	7
3	Predictive current control of asymmetrical six-phase induction motor without weighting factors. AEJ - Alexandria Engineering Journal, 2022, 61, 3793-3803.	6.4	4
4	General Current Control of Six-Phase-Based Non-Isolated Integrated On-Board Charger with Low Order Harmonic Compensation. Sustainability, 2022, 14, 1088.	3.2	7
5	Predictive Current Control of Six-Phase IM-Based Nonisolated Integrated On-Board Battery Charger Under Different Winding Configurations. IEEE Transactions on Power Electronics, 2022, 37, 8345-8358.	7.9	9
6	Modeling and Control of Single-Stage Quadratic-Boost Split Source Inverters. IEEE Access, 2022, 10, 24162-24180.	4.2	12
7	Solid-State Transformer-Based DC Power Distribution Network for Shipboard Applications. Applied Sciences (Switzerland), 2022, 12, 2001.	2.5	8
8	A Ring-Connected Dual Active Bridge Based DC-DC Multiport Converter for EV Fast-Charging Stations. IEEE Access, 2022, 10, 52052-52066.	4.2	10
9	ICT Enabled Smart Street Parking System for Smart Cities. , 2022, , .		0
10	Assets Forecasting and Power Management of DC-Based MG under Dynamic Pricing for Smart Cities. , 2022, , .		0
11	Postfault Operation of Onboard Integrated Battery Charger via a Nine-Phase EV-Drive Train. IEEE Transactions on Industrial Electronics, 2021, 68, 5626-5637.	7.9	14
12	An Optimal PWM Technique for Dual-Output Nine-Switch Boost Inverters With Minimum Passive Component Count. IEEE Transactions on Power Electronics, 2021, 36, 1065-1079.	7.9	27
13	Improved Damping Control Method for Grid-Forming Converters Using LQR and Optimally Weighted Feedback Control Loops. IEEE Access, 2021, 9, 87484-87500.	4.2	6
14	Multi-Terminal HVDC System With Offshore Wind Farms Under Anomalous Conditions: Stability Assessment. IEEE Access, 2021, 9, 92661-92675.	4.2	5
15	A New Hybrid Dual Active Bridge Modular Multilevel Based DCâ€“DC Converter for HVDC Networks. IEEE Access, 2021, 9, 62055-62073.	4.2	12
16	Improved Mathematical Modeling of Six Phase Induction Machines Based on Fractional Calculus. IEEE Access, 2021, 9, 53146-53155.	4.2	10
17	Assessment of Predictive Current Control of Six-Phase Induction Motor With Different Winding Configurations. IEEE Access, 2021, 9, 81125-81138.	4.2	26
18	Optimal Design of A 12-Slot/10-Pole Six-Phase SPM Machine with Different Winding Layouts for Integrated On-Board EV Battery Charging. Energies, 2021, 14, 1848.	3.1	9

#	Article	IF	Citations
19	Effects of flux derating methods on torque production ofÂfaultâ€tolerant polyphase inductiondrives. IET Electric Power Applications, 2021, 15, 616-628.	1.8	14
20	Nine-Phase-based Fractional-Slot Winding Layouts for Integrated EV On-board Battery Chargers. , 2021, , .		0
21	Simulation Study of A bidirectional Dual-Input Single-Resonant Tank LLC Micro Converter for PV Integration. , 2021, , .		0
22	Enhanced Quadratic V/f-Based Induction Motor Control of Solar Water Pumping System. Energies, 2021, 14, 104.	3.1	15
23	Fault Identification of Photovoltaic Array Based on Machine Learning Classifiers. IEEE Access, 2021, 9, 159113-159132.	4.2	20
24	Design and Multi-Objective Optimization of a 12-Slot/10-Pole Integrated OBC Using Magnetic Equivalent Circuit Approach. Machines, 2021, 9, 329.	2.2	5
25	A Family of Discontinuous PWM Strategies for Quasi Z-Source Nine-Switch Inverters. IEEE Access, 2021, 9, 169161-169176.	4.2	7
26	Genetic Algorithm based Parameter Estimation of Six-Phase Induction Machine Sequence Circuits. , 2021, , .		0
27	A Modular Multilevel Converter Based Solid State Transformer (MMC-SST) for High Power Wind Generators. , 2021, , .		1
28	An Improved Torque Density Pseudo Six-Phase Induction Machine Using a Quadruple Three-Phase Stator Winding. IEEE Transactions on Industrial Electronics, 2020, 67, 1855-1866.	7.9	15
29	Pre- and Postfault Current Control of Dual Three-Phase Reluctance Synchronous Drives. IEEE Transactions on Industrial Electronics, 2020, 67, 3361-3373.	7.9	12
30	Postfault Operation of Five-Phase Induction Machine With Minimum Total Losses Under Single Open-Phase Fault. IEEE Access, 2020, 8, 208696-208706.	4.2	14
31	Effect of Winding Configuration on Six-Phase Induction Machine Parameters and Performance. IEEE Access, 2020, 8, 223009-223020.	4.2	36
32	A Review of Integrated On-Board EV Battery Chargers: Advanced Topologies, Recent Developments and Optimal Selection of FSCW Slot/Pole Combination. IEEE Access, 2020, 8, 85216-85242.	4.2	110
33	A New Six-Phase FSCW Layout for Permanent Magnet Synchronous Wind Generators. , 2020, , .		2
34	IoT-Based Supervisory Control of an Asymmetrical Nine-Phase Integrated on-Board EV Battery Charger. IEEE Access, 2020, 8, 62619-62631.	4.2	13
35	Nine-Phase Six-Terminal Induction Machine Modeling Using Vector Space Decomposition. IEEE Transactions on Industrial Electronics, 2019, 66, 988-1000.	7.9	23
36	Analysis of Scalar PWM Approach With Optimal Common-Mode Voltage Reduction Technique for Five-Phase Inverters. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 1854-1871.	5.4	30

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37	Application of Standard Three-Phase Stator Frames in Prime Phase Order Multiphase Machine Construction. IEEE Transactions on Industrial Electronics, 2019, 66, 2506-2517.	7.9	25
38	Design of Optimal Droop Control for Multi-Terminal High-Voltage Direct Current Systems During Line Outages. Electric Power Components and Systems, 2019, 47, 772-784.	1.8	1
39	Zero-/Low-Speed Operation of Multiphase Drive Systems With Modular Multilevel Converters. IEEE Access, 2019, 7, 14353-14365.	4.2	13
40	Standard Three-Phase Stator Frames for Multiphase Machines of Prime-Phase Order: Optimal Selection of Slot/Pole Combination. IEEE Access, 2019, 7, 78239-78259.	4.2	13
41	Design and Performance Evaluation of a Three-Phase Self-Excited Induction Generator Feeding Single-Phase Loads. Electric Power Components and Systems, 2019, 47, 486-500.	1.8	9
42	Optimal Sizing and Control Strategy of Hybrid PV-Diesel Systems achieving minimum possible fuel Consumption in island Operations mode without batteries. , 2019, , .		0
43	Carrier-Based PWM Strategy for Quasi-Z Source Nine-Switch Inverters. , 2019, , .		9
44	Model Predictive Control of Three-Phase Electric Springs with Multiple Control Functions and Fixed Switching Frequency. , 2019, , .		0
45	A Modular High Voltage Pulse Generator for Water Treatment Applications. , 2019, , .		0
46	Position Control of Arm Manipulator Within Fractional Order PID Utilizing Particle Swarm Optimization Algorithm. , 2019, , .		1
47	Fault Detection and Diagnosis for Photovoltaic Array Under Grid Connected Using Support Vector Machine. , 2019, , .		7
48	An Improved Quadratic V/f-Based Control of Photovoltaic Battery-Less Induction Motor Driven Water Pumping System. , 2019, , .		1
49	Nineâ€phase sixâ€terminal poleâ€amplitude modulated induction motor for electric vehicle applications. IET Electric Power Applications, 2019, 13, 1696-1707.	1.8	6
50	Low-Order Space Harmonic Modeling of Asymmetrical Six-Phase Induction Machines. IEEE Access, 2019, 7, 6866-6876.	4.2	24
51	Postfault Full Torqueâ€“Speed Exploitation of Dual Three-Phase IPMSM Drives. IEEE Transactions on Industrial Electronics, 2019, 66, 6746-6756.	7.9	32
52	Dynamic Modeling of Dual Three-Phase IPMSM Drives With Different Neutral Configurations. IEEE Transactions on Industrial Electronics, 2019, 66, 141-151.	7.9	41
53	Interior permanent magnet motorâ€based isolated onâ€board integrated battery charger for electric vehicles. IET Electric Power Applications, 2018, 12, 124-134.	1.8	26
54	Effect of DC-Link Voltage Limitation on Postfault Steady-State Performance of Asymmetrical Six-Phase Induction Machines. IEEE Transactions on Industrial Electronics, 2018, 65, 6890-6900.	7.9	27

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55	An Improved Torque Density Synchronous Reluctance Machine With a Combined Starâ€“Delta Winding Layout. IEEE Transactions on Energy Conversion, 2018, 33, 1015-1024.	5.2	38
56	Common-mode voltage reduction for space vector modulated three- to five-phase indirect matrix converter. International Journal of Electrical Power and Energy Systems, 2018, 95, 266-274.	5.5	18
57	Postfault Operation of a Nine-Phase Six-Terminal Induction Machine Under Single Open-Line Fault. IEEE Transactions on Industrial Electronics, 2018, 65, 1084-1096.	7.9	44
58	Postfault Control of Scalar (V/f) Controlled Asymmetrical Six-Phase Induction Machines. IEEE Access, 2018, 6, 59211-59220.	4.2	20
59	A Nine-phase Six-Terminal Fractional-Slot-Winding for Interior Permanent-Magnet Machines with Low Space Harmonics. , 2018, , .		3
60	Enhanced Electromechanical Modeling of Asymmetrical Dual Three-Phase IPMSM Drives. , 2018, , .		3
61	Parameter Estimation of Asymmetrical Six-Phase Induction Machines Using Modified Standard Tests. IEEE Transactions on Industrial Electronics, 2017, 64, 6075-6085.	7.9	74
62	A new dual series-connected Nine-Switch Converter topology for a twelve-phase induction machine wind energy system. , 2017, , .		10
63	Investigation of a three-phase self-excited induction generator feeding single-phase loads. , 2017, , .		3
64	AC-powered multi-module high-voltage pusle-generator with sinusoidal input current for water treatment via underwater pulsed arc discharge. , 2017, , .		6
65	A sensorless Kalman filter-based active damping technique for grid-tied VSI with LCL filter. International Journal of Electrical Power and Energy Systems, 2017, 93, 146-155.	5.5	17
66	A Nine-Phase Six-Terminal Concentrated Single-Layer Winding Layout for High-Power Medium-Voltage Induction Machines. IEEE Transactions on Industrial Electronics, 2017, 64, 1796-1806.	7.9	25
67	Seriesâ€connected multiâ€halfâ€bridge modules converter for integrating multiâ€megawatt wind multiâ€phase permanent magnet synchronous generator with dc grid. IET Electric Power Applications, 2017, 11, 981-990.	1.8	6
68	A non-communication based protection algorithm for multi-terminal HVDC grids. Electric Power Systems Research, 2017, 144, 41-51.	3.6	43
69	Model-predictive control for common-mode voltage reduction and third-harmonic current injection techniques with five-phase inverters. , 2017, , .		6
70	A comparative simulation study between predictive torque and speed controllers for five-phase induction motor. , 2017, , .		0
71	A unified SVPWM realization for minimizing circulating currents of dual three phase machines. , 2017, , .		3
72	An improved post-fault controller for asymmetrical six-phase induction machine using fractional order PI current controllers. , 2017, , .		2

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73	Performance Evaluation of an On-Board Integrated Battery Charger System Using a 12-Slot/10-Pole Surface-Mounted PM Propulsion Motor. , 2017, , .		4
74	Control of Power Converters for Emerging Applications of Power Electronics. Journal of Control Science and Engineering, 2016, 2016, 1-2.	1.0	1
75	A new fifteen-switch inverter topology for two five-phase motors drive. , 2016, , .		10
76	Effect of multilayer windings on five-phase interior PM machines. , 2016, , .		2
77	A particle swarm optimization for optimum design of fractional order PID Controller in Active Magnetic Bearing systems. , 2016, , .		4
78	Performance of nine-switch inverter-fed asymmetrical six-phase induction machine under machine and converter faults. , 2016, , .		9
79	Effect of Stator Winding Connection on Performance of Five-Phase Linear Induction Machines. , 2016, , .		3
80	A Senior Project-Based Multiphase Motor Drive System Development. IEEE Transactions on Education, 2016, 59, 307-318.	2.4	13
81	Dynamic Modeling of a Five-Phase Induction Machine With a Combined Star/Pentagon Stator Winding Connection. IEEE Transactions on Energy Conversion, 2016, 31, 1645-1656.	5.2	18
82	Steady-State Equivalent Circuit of Five-Phase Induction Machines with Different Stator Connections under Open Line Conditions. IEEE Transactions on Industrial Electronics, 2016, , 1-1.	7.9	15
83	A four-switch based long-cable-fed five-phase induction motor drive system. , 2016, , .		0
84	Performance of a three-to-five matrix converter fed five-phase induction motor under open-circuit switch faults. , 2016, , .		2
85	Application of stator shifting to fiveâ€phase fractionalâ€slot concentrated winding interior permanent magnet synchronous machine. IET Electric Power Applications, 2016, 10, 681-690.	1.8	21
86	Common-mode voltage reduction of matrix converter fed seven-phase induction machine. , 2016, , .		7
87	An improved fault tolerant for a five-phase induction machine under open gate transistor faults. AEJ - Alexandria Engineering Journal, 2016, 55, 2609-2620.	6.4	8
88	A Nine-Switch-Converter-Based Integrated Motor Drive and Battery Charger System for EVs Using Symmetrical Six-Phase Machines. IEEE Transactions on Industrial Electronics, 2016, 63, 5326-5335.	7.9	115
89	Effect of Multilayer Windings With Different Stator Winding Connections on Interior PM Machines for EV Applications. IEEE Transactions on Magnetics, 2016, 52, 1-7.	2.1	72
90	A Space Vector PWM Scheme for Five-Phase Current-Source Converters. IEEE Transactions on Industrial Electronics, 2016, 63, 562-573.	7.9	36

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91	A Six-Phase 24-Slot/10-Pole Permanent-Magnet Machine With Low Space Harmonics for Electric Vehicle Applications. IEEE Transactions on Magnetics, 2016, 52, 1-10.	2.1	44
92	Steady-State Mathematical Modeling of a Five-Phase Induction Machine With a Combined Star/Pentagon Stator Winding Connection. IEEE Transactions on Industrial Electronics, 2016, 63, 1331-1343.	7.9	33
93	Threeâ€wire bipolar highâ€voltage direct current line using an existing singleâ€circuit highâ€voltage alternating current line for integrating renewable energy sources in multiterminal DC networks. IET Renewable Power Generation, 2016, 10, 370-379.	3.1	7
94	A Flywheel Energy Storage System for Fault Ride Through Support of Grid-Connected VSC HVDC-Based Offshore Wind Farms. IEEE Transactions on Power Systems, 2016, 31, 1671-1680.	6.5	78
95	A differential protection technique for multi-terminal HVDC. Electric Power Systems Research, 2016, 130, 78-88.	3.6	89
96	A Pulsewidth Modulation Technique for High-Voltage Gain Operation of Three-Phase Z-Source Inverters. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2016, 4, 521-533.	5.4	48
97	An Improved Fault-Tolerant Five-Phase Induction Machine Using a Combined Star/Pentagon Single Layer Stator Winding Connection. IEEE Transactions on Industrial Electronics, 2016, 63, 618-628.	7.9	64
98	A Droop Control Design for Multiterminal HVDC of Offshore Wind Farms With Three-Wire Bipolar Transmission Lines. IEEE Transactions on Power Systems, 2016, 31, 1546-1556.	6.5	27
99	A grid-connected switched PV array. , 2015, , .		3
100	Grid connected high power medium voltage wind energy conversion system with reduced line harmonics. , 2015, , .		6
101	A dual three-phase induction machine based flywheel storage system driven by modular multilevel converters for fault ride through in HVDC systems. , 2015, , .		8
102	Enhancement of the extracted maximum power of PV array during partial shading using switched PV-based system. , 2015, , .		2
103	A new single tooth winding layout for a single-phase induction motor with segmented stator. , 2015, , .		8
104	Investigation of multimodule buckâ€“boost inverterâ€based HVDC transmission system. Journal of Engineering, 2015, 2015, 31-37.	1.1	1
105	A cascaded boost inverter-based open-end winding three-phase induction motor drive for photovoltaic-powered pumping applications. , 2015, , .		4
106	A reduced switch-count SEPIC-based inverter for asymmetrical dual three-phase induction machines. , 2015, , .		4
107	A directional protection technique for MTDC networks. , 2015, , .		4
108	A nine-arm modular multilevel converter (9A-MMC) for six-phase medium voltage motor drives. , 2015, , .		11

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109	An asymmetrical six-phase induction motor drive based on nine-arm Modular Multilevel Converter (9AMMC) with circulating current suppression. , 2015, , .		9
110	Structural Identifiability Analysis of Steady-State Induction Machine Models. , 2015, , .		1
111	Low Space Harmonics Cancelation in Double-Layer Fractional Slot Winding Using Dual Multiphase Winding. IEEE Transactions on Magnetics, 2015, 51, 1-10.	2.1	102
112	A five-phase linear induction machine with planar modular winding. , 2015, , .		4
113	A reduced switch-count single-phase SEPIC-based inverter. , 2015, , .		5
114	A Switched PV Approach for Extracted Maximum Power Enhancement of PV Arrays During Partial Shading. IEEE Transactions on Sustainable Energy, 2015, 6, 767-772.	8.8	44
115	Cogging torque reduction of axial magnetic gearbox using pole pairing technique. , 2015, , .		7
116	A grid-connected HVDC shunt tap based on series-input parallel-output DC-AC multi-module 2-level voltage source converters. , 2015, , .		3
117	Wind farms-fed HVDC system power profile enhancement using solid state transformer based flywheel energy storage system. Journal of Energy Storage, 2015, 4, 145-155.	8.1	13
118	A Zeta-converter based four-switch three-phase DC-AC inverter. , 2015, , .		3
119	A Four-Switch Three-Phase SEPIC-Based Inverter. IEEE Transactions on Power Electronics, 2015, 30, 4891-4905.	7.9	47
120	Effect of Stator Winding Connection of Five-Phase Induction Machines on Torque Ripples Under Open Line Condition. IEEE/ASME Transactions on Mechatronics, 2015, 20, 580-593.	5.8	38
121	Performance evaluation of a transformerless multiphase electric submersible pump system. Journal of Engineering, 2014, 2014, 407-414.	1.1	4
122	Torque ripple alleviation of a radial magnetic gearbox using step skewing approach. , 2014, , .		4
123	Integrating flywheel energy storage system to wind farms-fed HVDC system via a solid state transformer. , 2014, , .		8
124	Fault-Tolerant Control of Five-Phase Current Source Inverter for Medium-Voltage Drives. , 2014, , .		23
125	A five-phase induction machine model using multiple DQ planes considering the effect of magnetic saturation. , 2014, , .		6
126	Investigation of sensorless capacitor voltage balancing technique for modular multilevel converters. , 2014, , .		28

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127	Voltage sensorless current control of low power inverter-based distributed generation systems. , 2014, , .		0
128	A permanent-magnet machine with improved torque density based on a single layer winding layout for electric vehicle applications. , 2014, , .		1
129	Maximum power transfer of PV-fed inverter-based distributed generation with improved voltage regulation using flywheel energy storage systems. , 2014, , .		3
130	A stationary frame current control for inverter-based distributed generation with sensorless active damped LCL filter using Kalman filter. , 2014, , .		3
131	A new modulation technique for wide-range control of output voltage in Z-source inverters. , 2014, , .		0
132	Medium voltage flywheel energy storage system employing dual three-phase induction machine with machine-side series-connected converters. , 2014, , .		2
133	An asymmetrical six phase induction machine for flywheel energy storage drive systems. , 2014, , .		3
134	Effects of unbalanced voltage on the steady-state performance of a five-phase induction motor with three different stator winding connections. , 2014, , .		7
135	A series flywheel architecture for power levelling and mitigation of DC voltage transients in multiâ€terminal HVDC grids. IET Generation, Transmission and Distribution, 2014, 8, 1951-1959.	2.5	17
136	Indirect field oriented control of five-phase induction motor based on SPWM-CSI. , 2014, , .		11
137	Calculation of derating factors based on steady-state unbalanced multiphase induction machine model under open phase(s) and optimal winding currents. Electric Power Systems Research, 2014, 106, 214-225.	3.6	33
138	A static three-phase to five-phase transformer based on Scott connection. Electric Power Systems Research, 2014, 110, 84-93.	3.6	15
139	An Interline Dynamic Voltage Restoring and Displacement Factor Controlling Device (IVDFC). IEEE Transactions on Power Electronics, 2014, 29, 2737-2749.	7.9	28
140	Effect of Stator Winding Connection on Performance of Five-Phase Induction Machines. IEEE Transactions on Industrial Electronics, 2014, 61, 3-19.	7.9	93
141	Bidirectional Buck-Boost Inverter-Based HVDC Transmission System With AC-Side Contribution Blocking Capability During DC-Side Faults. IEEE Transactions on Power Delivery, 2014, 29, 1249-1261.	4.3	15
142	Sinusoidal PWM modulation technique of five-phase current-source-converters with controlled modulation index. , 2014, , .		9
143	Non-linear sliding-mode control of three-phase buck-boost inverter. , 2014, , .		9
144	A new permanent-magnet vernier machine using a single layer winding layout for electric vehicles. , 2014, , .		1

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145	Performance assessment of single and dual loops discrete PR controllers with LCL filter for inverter-based distributed generation. , 2014, , .		2
146	Torque Ripple Reduction of Radial Magnetic Gearbox Using Axial Pole Pairing. , 2014, , .		2
147	A bearingless coaxial magnetic gearbox. AEJ - Alexandria Engineering Journal, 2014, 53, 573-582.	6.4	14
148	Discrete time domain analysis and optimal design of stationary frame AC current controllers with active damped LCL Filter for high power applications. , 2014, , .		2
149	A New Protection Scheme for HVDC Converters Against DC-Side Faults With Current Suppression Capability. IEEE Transactions on Power Delivery, 2014, 29, 1569-1577.	4.3	93
150	Parameter Identification of Five-Phase Induction Machines With Single Layer Windings. IEEE Transactions on Industrial Electronics, 2014, 61, 5139-5154.	7.9	48
151	Traction System with On-Board Inductive Power Transfer. , 2014, , .		0
152	Ride-through capability enhancement of VSC-HVDC based wind farms using low speed flywheel energy storage system. , 2014, , .		15
153	Studying the performance of modular multilevel converter under arm voltage control during normal and faulty conditions. , 2014, , .		0
154	An axial magnetic gearbox with an electric power output port. , 2014, , .		7
155	Single-Sensor-Based Three-Phase Permanent-Magnet Synchronous Motor Drive System With Luenberger Observers for Motor Line Current Reconstruction. IEEE Transactions on Industry Applications, 2014, 50, 2602-2613.	4.9	71
156	Boost inverter-based HVDC transmission system with inherent blocking capability of AC side contribution during DC side faults. Electric Power Systems Research, 2014, 116, 12-23.	3.6	7
157	Fault Current Contribution of Medium Voltage Inverter and Doubly-Fed Induction-Machine-Based Flywheel Energy Storage System. IEEE Transactions on Sustainable Energy, 2013, 4, 58-67.	8.8	44
158	An Improved Performance Direct-Drive Permanent Magnet Wind Generator Using a Novel Single-Layer Winding Layout. IEEE Transactions on Magnetics, 2013, 49, 5124-5134.	2.1	28
159	Performance of a five-phase boost inverter-fed submersible induction machine. , 2013, , .		2
160	Fault current contribution scenarios for grid-connected voltage source inverter-based distributed generation with an LCL filter. Electric Power Systems Research, 2013, 104, 93-103.	3.6	37
161	Studying the effect of over-modulation on the output voltage of three-phase single-stage grid-connected boost inverter. AEJ - Alexandria Engineering Journal, 2013, 52, 347-358.	6.4	3
162	A Voltage-Behind-Reactance Model of Five-Phase Induction Machines Considering the Effect of Magnetic Saturation. IEEE Transactions on Energy Conversion, 2013, 28, 576-592.	5.2	30

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163	Vector control of multiphase induction machine under open-circuit phase faults. , 2013, , .		5
164	A single-stage three-phase DC/AC inverter based on Cuk converter for PV application. , 2013, , .		16
165	Optimum Power Transmission-Based Droop Control Design for Multi-Terminal HVDC of Offshore Wind Farms. IEEE Transactions on Power Systems, 2013, 28, 3401-3409.	6.5	97
166	An adaptive PR controller for inverter-based distribution generation with active damped LCL filter. , 2013, , .		4
167	Modified modulation scheme for photovoltaic fed grid-connected three-phase boost inverter. , 2013, , .		11
168	Performance assessment of renewable energy-fed three-phase grid-connected voltage source converters and boost inverters during DC side faults. , 2013, , .		0
169	Generalized theory of mixed pole machines with a general rotor configuration. AEJ - Alexandria Engineering Journal, 2013, 52, 19-33.	6.4	3
170	A new five-phase to three-phase back-to-back current source converter based wind energy conversion system. , 2013, , .		3
171	New topologies for photovoltaic-fed single-stage boost inverters. , 2013, , .		2
172	DC bus control of an advanced flywheel energy storage kinetic traction system for electrified railway industry. , 2013, , .		25
173	A power control strategy for flywheel doubly-fed induction machine storage system using artificial neural network. Electric Power Systems Research, 2013, 96, 267-276.	3.6	29
174	Ride-Through Capability of Grid-Connected Brushless Cascade DFIG Wind Turbines in Faulty Grid Conditionsâ€"A Comparative Study. IEEE Transactions on Sustainable Energy, 2013, 4, 1002-1015.	8.8	34
175	A Scott connection-based three-phase to five-phase power transformer. , 2013, , .		5
176	Sensorless field oriented control of five-phase induction machine under open-circuit phase faults. , 2013, , .		13
177	Sensorless V/f control with MRAS speed estimator for a five-phase induction machine under open-circuit phase faults. , 2013, , .		8
178	Multi-module Bi-directional Buck-Boost Inverter-based HVDC back-to-back transmission system. , 2013, , .		2
179	Five-Phase Modular External Rotor PM Machines with Different Rotor Poles: A Comparative Simulation Study. Modelling and Simulation in Engineering, 2012, 2012, 1-14.	0.7	4
180	Performance Evaluation of a Five-Phase Modular Winding Induction Machine. IEEE Transactions on Industrial Electronics, 2012, 59, 2654-2669.	7.9	62

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181	A coaxial magnetic gearbox with magnetic levitation capabilities. , 2012, , .		4
182	Magnetic gearbox with an electric power output port and fixed speed ratio for wind energy applications. , 2012, , .		6
183	A wind turbine architecture employing a new three port magnetic gear box. , 2012, , .		4
184	Control of doubly-fed induction machine storage system for constant charging/discharging grid power using artificial neural network. , 2012, , .		3
185	A design example of an 8-pole radial AMB for flywheel energy storage. , 2012, , .		8
186	Improved Flux Pattern With Third Harmonic Injection for Multiphase Induction Machines. IEEE Transactions on Power Electronics, 2012, 27, 1563-1578.	7.9	102
187	On the development of flywheel storage systems for power system applications: A survey. , 2012, , .		24
188	Effect of Current Harmonic Injection on Constant Rotor Volume Multiphase Induction Machine Stators: A Comparative Study. IEEE Transactions on Industry Applications, 2012, 48, 2002-2013.	4.9	57
189	Fault ride-through capability enhancement based on flywheel energy storage system for wind farms connected via VSC high voltage DC transmission. , 2012, , .		12
190	Brushless doubly fed induction machine as a variable frequency transformer. , 2012, , .		4
191	Active and reactive power management of photovoltaic-based interline dynamic voltage restorer in low voltage distribution networks. , 2012, , .		12
192	Performance evaluation of a five-phase modular external rotor PM machine with different rotor poles. AEJ - Alexandria Engineering Journal, 2012, 51, 249-261.	6.4	7
193	Vector controlled multiphase induction machine: Harmonic injection using optimized constant gains. Electric Power Systems Research, 2012, 89, 116-128.	3.6	24
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