A Review of the State of the Art of Power Electronics fo

IEEE Transactions on Power Electronics
24, 1859-1875
DOI: 10.1109/tpel.2009.2017082

Citation Report

#	Article	IF	Citations
1	Integrated Optimal Design of a Passive Wind Turbine System: An Experimental Validation. IEEE Transactions on Sustainable Energy, 2010, 1, 48-56.	5.9	39
2	Distributed Generation: Toward a New Energy Paradigm. IEEE Industrial Electronics Magazine, 2010, 4, 52-64.	2.3	395
3	Wind Energy literature survey no. 15. Wind Energy, 2010, 13, 275-277.	1.9	1
4	Analysis and comparison of different diode rectifiers solutions in grid connected WECS employing modular PMSGs. , 2010, , .		7
5	Operation features of a reduced matrix converter for offshore wind power. , 2010, , .		6
6	Effects of Capacitor Bank on Fault Ride Through Capability of Induction Generator Based Wind Turbines. , 2010, , .		6
7	Active damping for torsional vibrations in PMSG based WECS. , 2010, , .		5
8	An AC/DC power conversion based on Series-connected Universal Link converter. , 2010, , .		6
9	Modeling and Simulation of Generator Side Converter of Doubly Fed Induction Generator-Based Wind Power Generation System. , 2010, , .		1
10	Review of DC System Technologies for Large Scale Integration of Wind Energy Systems with Electricity Grids. Energies, 2010, 3, 1303-1319.	1.6	30
11	Predictive control of a back to back Diode Clamped Multilevel converter. , 2010, , .		4
12	Distributed energy resources in grid interactive AC microgrids. , 2010, , .		28
13	Effects of Mismatched Parameters in MRAS Sensorless Doubly Fed Induction Machine Drives. IEEE Transactions on Power Electronics, 2010, 25, 2842-2851.	5.4	41
14	Distributed Voltage and Frequency Control of Offshore Wind Farms Connected With a Diode-Based HVdc Link. IEEE Transactions on Power Electronics, 2010, 25, 3095-3105.	5.4	138
15	Modeling and analysis of a grid-connected wind energy conversion system using PSCAD/EMTDC. , 2010, , .		3
16	The Balance of Renewable Sources and User Demands in Grids: Power Electronics for Modular Battery Energy Storage Systems. IEEE Transactions on Power Electronics, 2010, 25, 3049-3056.	5.4	295
17	A new structure based on cascaded multilevel converter for variable speed wind turbine. , 2010, , .		23
18	A Complete Modeling and Simulation of Induction Generator Wind Power Systems. , 2010, , .		31

#	Article	IF	Citations
19	Minimum-Threshold Crowbar for a Fault-Ride-Through Grid-Code-Compliant DFIG Wind Turbine. IEEE Transactions on Energy Conversion, 2010, 25, 750-759.	3.7	284
20	Direct Rotor Current-Mode Control Improves the Transient Response of Doubly Fed Induction Generator-Based Wind Turbines. IEEE Transactions on Energy Conversion, 2010, 25, 722-731.	3.7	15
21	Control strategy for a variable-speed wind turbine using dc bus measurements. , 2010, , .		4
22	Application of active NPC converter on generator side for MW direct-driven wind turbine. , 2010, , .		13
23	The dual induction generator for renewable energy conversion systems. Experimental results, problems and solutions. , 2010, , .		8
24	Power electronics and controls for wind turbine systems. , 2010, , .		35
25	Trends in power electronics and control of renewable energy systems. , 2010, , .		73
26	Control of HVDC Light System Using Conventional and Direct Current Vector Control Approaches. IEEE Transactions on Power Electronics, 2010, 25, 3106-3118.	5.4	146
27	New Constant Electrical Power Soft-Stalling Control for Small-Scale VAWTs. IEEE Transactions on Energy Conversion, 2010, 25, 1152-1161.	3.7	51
28	SiC Power Devices for Microgrids. IEEE Transactions on Power Electronics, 2010, 25, 2889-2896.	5.4	151
29	Electronic conversion system and speed-control strategy for small wind generators. , 2010, , .		3
30	Microgrids: Integration of distributed energy resources into the smart-grid. , 2010, , .		12
31	Grid-connected inverter with inner output impedance and governor-free characteristics. , 2010, , .		8
32	A new conversion and control system for a small off - grid wind turbine. , 2010, , .		13
33	Quantitative Analysis and Rating Considerations of a Doubly Fed Induction Generator for Wind Energy Conversion Systems. , 2010, , .		2
34	Variable speed wind turbine based on multiple generators drive-train configuration. , 2010, , .		1
35	On line tuning of the stator inductance in a MRAS observer for sensorless DFIM drives. , 2010, , .		5
36	Boost converter efficiency optimization in wind turbine. , 2010, , .		11

#	Article	IF	Citations
37	A back EMF-based rotor position prediction in Permanent Magnet machines for survivable wind generator systems. , 2010, , .		2
38	Electro-thermal modeling for junction temperature cycling-based lifetime prediction of a press-pack IGBT 3L-NPC-VSC applied to large wind turbines. , 2011, , .		28
39	Comparison and performance evaluation of renewable to grid integration schemes: Single-phase high-frequency fuel cells and PV inverters applications. , 2011, , .		0
40	Modeling and design of a micro wind energy system with a variable-speed wind turbine connected to a permanent magnet synchronous generator and a PWM rectifier. , 2011, , .		13
41	Study of brake transient regimes for a small wind generator. , 2011, , .		4
42	Optimal control for a variable-speed wind turbine. , 2011, , .		4
43	Change of paradigm in power electronic converters used in renewable energy applications. , 2011, , .		6
44	Hardware in the loop wind turbine emulator. , 2011, , .		13
45	Sensorless control for small wind turbines with permanent magnet synchronous generator. , 2011, , .		3
46	A review of the main inverter topologies applied on the integration of renewable energy resources to the grid. , 2011, , .		10
47	Voltage transient analysis of a PMSG wind power system using controller-hardware-in-the loops. , 2011, , .		10
48	Stator Winding Inter-Turn Short Circuit and Rotor Eccentricity Diagnosis of Permanent Magnet Synchronous Generator. , 2011, , .		5
49	Evaluation of a class of improved DTC method applied in DFIG for wind energy applications. , 2011, , .		9
50	Dual-PI Rotor Current Control of Doubly-Fed Induction Wind Generators under Unbalanced Grid Voltage. , 2011, , .		4
52	Open-switch fault diagnosis and system reconfiguration of doubly fed wind power converter used in a microgrid. IEEE Transactions on Power Electronics, 2011, 26, 816-821.	5.4	123
53	Control strategy of a 6 MVA series connected synchronous generator for wind power. , 2011, , .		0
54	MPPT Battery Charger for Stand-Alone Wind Power System. IEEE Transactions on Power Electronics, 2011, 26, 1631-1638.	5.4	78
55	Evaluation and mitigation of voltage flicker caused by constant speed wind turbines. , 2011, , .		2

#	Article	IF	Citations
56	A study of maximum power point tracking algorithms for wind energy system. , 2011, , .		84
57	Study on Steady- and Transient-State Characteristics of a New HVDC Transmission System Based on an Inductive Filtering Method. IEEE Transactions on Power Electronics, 2011, 26, 1976-1986.	5.4	28
58	A high-efficiency grid-tie battery energy storage system. IEEE Transactions on Power Electronics, 2011, 26, 886-896.	5.4	286
59	Power devices loading in multilevel converters for 10 MW wind turbines. , 2011, , .		15
60	Theory and Implementation of a Simple Digital Control Strategy for Brushless DC Generators. IEEE Transactions on Power Electronics, 2011, 26, 3345-3356.	5.4	44
61	Unified DC-Link Current Control for Low-Voltage Ride-Through in Current-Source-Converter-Based Wind Energy Conversion Systems. IEEE Transactions on Power Electronics, 2011, 26, 288-297.	5.4	100
62	Optimized Wind Energy Harvesting System Using Resistance Emulator and Active Rectifier for Wireless Sensor Nodes. IEEE Transactions on Power Electronics, 2011, 26, 38-50.	5.4	176
63	A reduced model of permanent magnet synchronous generators for wind energy conversion systems. , 2011, , .		0
64	Smart grid and renewable energy systems. , 2011, , .		36
65	Power electronics - key technology for renewable energy systems. , 2011, , .		40
66	Power electronics converters for wind turbine systems. , 2011, , .		28
67	A New Nine-Level Active NPC (ANPC) Converter for Grid Connection of Large Wind Turbines for Distributed Generation. IEEE Transactions on Power Electronics, 2011, 26, 961-972.	5.4	164
68	Impacts of Symmetrical and Asymmetrical Voltage Sags on DFIG-Based Wind Turbines Considering Phase-Angle Jump, Voltage Recovery, and Sag Parameters. IEEE Transactions on Power Electronics, 2011, 26, 1587-1598.	5.4	163
69	Thermal analysis of multilevel grid side converters for 10 MW wind turbines under Low Voltage Ride Through. , 2011, , .		9
70	Active Damping for PMSG-Based WECS With DC-Link Current Estimation. IEEE Transactions on Industrial Electronics, 2011, 58, 1110-1119.	5.2	121
71	Comparison of distinct modulation techniques applied to PMSG drives for wind turbine applications under faulty operating conditions. , 2011, , .		1
72	An Improved Low-Voltage Ride-Through Control Strategy of Doubly Fed Induction Generator During Grid Faults. IEEE Transactions on Power Electronics, 2011, 26, 3653-3665.	5.4	229
73	A Family of Autoconnected Transformers for 12- and 18-Pulse Convertersâ€"Generalization for Delta and Wye Topologies. IEEE Transactions on Power Electronics, 2011, 26, 2065-2078.	5.4	49

#	Article	IF	Citations
74	A simplified model for dynamic behavior of permanent magnet synchronous generator for direct drive wind turbines. , 2011, , .		24
75	Low voltage ride-through of DFIG wind turbines complying with Western-Power grid code in Australia. , 2011, , .		7
76	Grid integration impacts and energy storage systems for wind energy applications â€" A review. , 2011, , .		29
77	Common voltage eliminating of SVM diode clamping three-level inverter connected to grid. , 2011, , .		1
78	Converter topologies for permanent magnetic synchronous generator on wind energy conversion system. , 2011, , .		18
79	Power analysis of a multimodular wind power system including PMG, active rectifier and VSI. , 2011, , .		1
80	Predictive direct torque and flux control of doubly fed induction generator with switching frequency reduction for wind energy applications. , 2011, , .		4
81	Sensorless control of PMSG-based wind Energy Conversion Systems using a FLL-based synchronization technique. , 2011, , .		4
82	Control scheme of PMSG based wind turbine for utility network connection. , 2011, , .		21
83	A high step-up current fed multi-resonant converter with output voltage doubler. , 2011, , .		14
84	Grid Interface of Wind Power With Large Split-Winding Alternator Using Cascaded Multilevel Inverter. IEEE Transactions on Energy Conversion, 2011, 26, 299-309.	3.7	64
85	Power electronics in wind energy conversion systems — A survey across the globe. , 2011, , .		1
86	An Integrated-Controlled AC/DC Interface for Microscale Wind Power Generation Systems. IEEE Transactions on Power Electronics, 2011, 26, 1377-1384.	5.4	23
87	Direct torque control of cascaded brushless doubly fed induction generator for wind energy applications. , 2011, , .		15
88	A New Elman Neural Network-Based Control Algorithm for Adjustable-Pitch Variable-Speed Wind-Energy Conversion Systems. IEEE Transactions on Power Electronics, 2011, 26, 473-481.	5.4	111
89	Growing Neural Gas (GNG)-Based Maximum Power Point Tracking for High-Performance Wind Generator With an Induction Machine. IEEE Transactions on Industry Applications, 2011, 47, 861-872.	3.3	38
90	Taiwan's First Large-Scale Offshore Wind Farm Connectionâ€"A Real Project Case Study With a Comparison of Wind Turbine. IEEE Transactions on Industry Applications, 2011, 47, 1461-1469.	3.3	35
91	Multiple-Complex Coefficient-Filter-Based Phase-Locked Loop and Synchronization Technique for Three-Phase Grid-Interfaced Converters in Distributed Utility Networks. IEEE Transactions on Industrial Electronics, 2011, 58, 1194-1204.	5.2	391

#	Article	IF	Citations
92	Design of a Robust Grid Interface System for PMSG-Based Wind Turbine Generators. IEEE Transactions on Industrial Electronics, 2011, 58, 316-328.	5.2	222
93	Adaptive Tuning of the Stator Inductance in a Rotor-Current-Based MRAS Observer for Sensorless Doubly Fed Induction-Machine Drives. IEEE Transactions on Industrial Electronics, 2011, 58, 4683-4692.	5.2	49
94	Small Scale Wind Energy Conversion Systems. , 0, , .		3
95	Integration of Renewable Energy into Present and Future Energy Systems. , 2011, , 609-706.		39
96	A vibration damping MPPT strategy for wind turbines using delayed feedback. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 1716-1720.	0.4	3
97	One-power-point operation for variable speed wind/tidal stream turbines with synchronous generators. IET Renewable Power Generation, 2011, 5, 99.	1.7	53
98	Fault ride-through capability enhancement of doubly-fed induction wind generators. IET Renewable Power Generation, 2011, 5, 368.	1.7	49
99	Stability Analysis and Improvements for Variable-Speed Multipole Permanent Magnet Synchronous Generator-Based Wind Energy Conversion System. IEEE Transactions on Sustainable Energy, 2011, 2, 459-467.	5.9	74
100	Diagnosis of the open-circuit fault in three-parallel voltage-source converver for a high-power wind turbine. , 2011, , .		1
101	Enhanced Power Quality Control Strategy for Single-Phase Inverters in Distributed Generation Systems. IEEE Transactions on Power Electronics, 2011, 26, 798-806.	5.4	279
102	A Low-Cost Rectifier Topology for Variable-Speed High-Power PMSG Wind Turbines. IEEE Transactions on Power Electronics, 2011, 26, 2192-2200.	5.4	81
103	Challenges and options for a large wind power uptake by the European electricity system. Applied Energy, 2011, 88, 1461-1469.	5.1	94
104	Comparison of oscillation damping capability in three power control strategies for PMSGâ€based WECS. Wind Energy, 2011, 14, 389-406.	1.9	31
105	Using equidistant vector-based hysteresis current regulators in DFIG wind generation systems. Electric Power Systems Research, 2011, 81, 1151-1160.	2.1	7
106	Low and high voltage ride-through of DFIG wind turbines using hybrid current controlled converters. Electric Power Systems Research, 2011, 81, 1456-1465.	2.1	70
107	New reactive power control concept for converter based renewable energy sources. , 2011, , .		3
108	Experimental determination of an optimal control law of a small windgenerator. , 2011, , .		3
109	Analysis of high-frequency power conversion for series-connected universal link AC/DC power converter. , 2011, , .		3

#	Article	IF	Citations
110	Intelligent Sliding Mode Control for Variable-Speed Wind Conversion System with a Characteristic Model. Applied Mechanics and Materials, 2011, 58-60, 595-600.	0.2	0
111	Modeling of SVM Diode Clamping Three-Level Inverter Connected to Grid. Advanced Materials Research, 2011, 267, 963-968.	0.3	0
112	Wind turbine drive train systems. , 2011, , 208-246.		6
113	Enhanced reactive power support capability of fully rated converter-based wind generators. , 2011, , .		8
114	The Impact of Power Switching Devices on the Thermal Performance of a 10 MW Wind Power NPC Converter. Energies, 2012, 5, 2559-2577.	1.6	45
115	Joint Modeling of DFIG-Based Wind Turbines for Structural Load Characteristics Analysis. Advanced Materials Research, 2012, 588-589, 1386-1389.	0.3	1
116	Wind Turbine Tribology. Green Energy and Technology, 2012, , 483-530.	0.4	8
117	Evaluation of the Maximum Power Point Tracking performance in small wind turbines. , 2012, , .		9
118	A non-standard control strategy for grid-tied single phase systems with power quality compensation. , 2012, , .		4
119	Algorithm for efficiency optimization of the boost converter in wind turbine. , 2012, , .		3
120	Recent Advances in Rotor Design of Vertical Axis Wind Turbines. Wind Engineering, 2012, 36, 647-665.	1.1	30
121	The Application of Approximate Entropy Theory in Defects Detecting of IGBT Module. Active and Passive Electronic Components, 2012, 2012, 1-7.	0.3	0
122	Power Electronics forÂRenewable Energy. Electric Power Engineering Series, 2012, , 1-24.	0.4	0
123	A novel filter compensation scheme for single phase-self-excited induction generator micro wind generation system. Scientific Research and Essays, 2012, 7, .	0.1	8
124	Resolution-Level-Controlled WM Inverter for PMG-Based Wind Energy Conversion System. IEEE Transactions on Industry Applications, 2012, 48, 750-763.	3.3	33
125	Analytical and Multiphysics Approach to the Optimal Design of a 10-MW DFIG for Direct-Drive Wind Turbines. IEEE Transactions on Industrial Electronics, 2012, 59, 2791-2799.	5.2	58
126	Review of solid state transformer in the distribution system: From components to field application. , 2012, , .		177
127	Realization of Reactive Power Compensation Near the LCC-HVDC Converter Bridges by Means of an Inductive Filtering Method. IEEE Transactions on Power Electronics, 2012, 27, 3908-3923.	5.4	55

#	Article	IF	Citations
128	Dual-input isolated full-bridge boost dcâ€“dc converter based on the distributed transformers. IET Power Electronics, 2012, 5, 1074-1083.	1.5	67
129	Optimized design of resonant controller for stator current harmonic compensation in DFIG wind turbine systems. , 2012, , .		15
130	Low voltage ride-through control for fixed speed wind generators under grid unbalanced fault. , 2012, , .		8
131	Pragmatic Method to Obtain Optimal Control Laws for Small Windgenerators. Topics in Intelligent Engineering and Informatics, 2012, , 239-248.	0.4	0
132	Rectifier systems for variable speed wind generation - a review. , 2012, , .		22
133	Single-Stage Boost Inverter With Coupled Inductor. IEEE Transactions on Power Electronics, 2012, 27, 1885-1893.	5.4	45
134	Power Capability Investigation Based on Electrothermal Models of Press-Pack IGBT Three-Level NPC and ANPC VSCs for Multimegawatt Wind Turbines. IEEE Transactions on Power Electronics, 2012, 27, 3195-3206.	5.4	106
135	Micro wind turbine system integration guidelines PMSG and inverter front end choices. , 2012, , .		6
136	Fault diagnosis of three-parallel voltage-source converter for a high-power wind turbine. IET Power Electronics, 2012, 5, 1058-1067.	1.5	72
137	Carrier-based PWM and space vector modulation of three single phase PFC rectifier as generator-side converter of PM WECS. , 2012, , .		2
138	A novel topology for enhancing the Low Voltage Ride through capability for grid connected wind turbine generators. , 2012, , .		2
139	Harmonic Transfer Characteristics of a New HVDC System Based on an Inductive Filtering Method. IEEE Transactions on Power Electronics, 2012, 27, 2273-2283.	5.4	24
140	Toward a Generic Torque and Reactive Power Controller for Doubly Fed Machines. IEEE Transactions on Power Electronics, 2012, 27, 113-121.	5.4	48
141	Power Electronics Enabling Efficient Energy Usage: Energy Savings Potential and Technological Challenges. IEEE Transactions on Power Electronics, 2012, 27, 2338-2353.	5.4	77
142	Control and Dynamic Analysis of Grid Connected Variable Speed SCIG Based Wind Energy Conversion System. , 2012, , .		7
143	A novel three-vectors-based predictive direct power control of doubly fed induction generator for wind energy applications. , 2012, , .		11
145	Verification of DFIG and PMSG wind turbines' LVRT characteristics through field testing. , 2012, , .		3
146	Operation and thermal loading of three-level Neutral-Point-Clamped wind power converter under various grid faults. , 2012, , .		7

#	Article	IF	Citations
147	Modelling and control of a multi-phase permanent magnet synchronous generator and efficient hybrid 3L-converters for large direct-drive wind turbines. IET Electric Power Applications, 2012, 6, 322.	1.1	41
148	Symmetric multilevel inverter with reduced components based on non-insulated dc voltage sources. IET Power Electronics, 2012, 5, 571.	1.5	119
149	Analysis and control of grid connected wind energy system with DSTATCOM. , 2012, , .		0
150	Thermal analysis of multi-MW two-level wind power converter. , 2012, , .		16
151	Study of analytical current ripple of three-phase PWM converter. , 2012, , .		19
152	Design and analysis of an ocean current turbine performance assessment system. , 2012, , .		6
153	Pragmatic control strategy design method for a small windgenerator. , 2012, , .		2
154	An effective control technique for an Impedance Source Inverter based wind energy system. , 2012, , .		1
155	Dynamic study of a battery change-over scheme of a windfarm containing dual BESS. , 2012, , .		5
156	Performance predetermination of variable speed wind-driven grid connected SEIGs. , 2012, , .		2
157	A new high frequency grid interface system for PMSG-based wind turbine generators in low power applications. , 2012, , .		4
158	Modulation features of a high-frequency conversion system for wind farm applications. , 2012, , .		0
159	Loss and thermal redistributed modulation methods for three-level neutral-point-clamped wind power inverter undergoing Low Voltage Ride Through. , 2012, , .		8
160	Nonlinear control of MPPT and grid connected for wind power generation systems based on the PMSG. , 2012, , .		21
161	Principle of low voltage ride-through ability realization of fixed speed wind generator using series reactor and SVC. , 2012, , .		3
162	Control of a doubly fed induction generator wind turbine under voltage sags. , 2012, , .		2
163	Optimal Control Study for Fractional Frequency Wind Power System. , 2012, , .		10
164	Optimal and Direct-Current Vector Control of Direct-Driven PMSG Wind Turbines. IEEE Transactions on Power Electronics, 2012, 27, 2325-2337.	5.4	367

#	Article	IF	Citations
165	Power Electronics Converters for Wind Turbine Systems. IEEE Transactions on Industry Applications, 2012, 48, 708-719.	3.3	737
166	Analysis and Test of Diode Rectifier Solutions in Grid-Connected Wind Energy Conversion Systems Employing Modular Permanent-Magnet Synchronous Generators. IEEE Transactions on Industrial Electronics, 2012, 59, 2135-2146.	5.2	60
167	A new course on control of wind power generation systems using analysis and simulation. , 2012, , .		2
168	Development of a Grid-Connected Wind Generation System With a Modified PLL Structure. IEEE Transactions on Sustainable Energy, 2012, 3, 474-481.	5.9	18
169	Highly Efficient Analog Maximum Power Point Tracking (AMPPT) in a Photovoltaic System. IEEE Transactions on Circuits and Systems I: Regular Papers, 2012, 59, 1546-1556.	3.5	55
170	Transient Control of DFIG-Based Wind Power Plants in Compliance With the Australian Grid Code. IEEE Transactions on Power Electronics, 2012, 27, 2813-2824.	5.4	103
171	A WTS power conversion stage with multilevel converters operating in the medium voltage range. International Journal of Hydrogen Energy, 2012, 37, 10083-10088.	3.8	2
172	Reactive power influence on the thermal cycling of multi-MW wind power inverter. , 2012, , .		10
173	An MRAS Observer for Sensorless DFIM Drives With Direct Estimation of the Torque and Flux Rotor Current Components. IEEE Transactions on Power Electronics, 2012, 27, 2576-2584.	5.4	64
174	Comparison of power fluctuation between Optislip and DFIG controlled wind turbines. , 2012, , .		4
175	Particle swarm optimization-based maximum power point tracking algorithm for wind energy conversion system. , 2012, , .		18
176	Electrical machines and powerâ€electronic systems for highâ€power wind energy generation applications. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2012, 32, 34-71.	0.5	28
177	Power density investigations for the large wind turbines' grid-side press-pack IGBT 3L-NPC-VSCs. , 2012, , .		6
178	Series compensated open-winding PM generator wind generation system. , 2012, , .		13
179	Power electronics and reliability in renewable energy systems. , 2012, , .		75
180	Rotor power control in doubly fed induction generator wind turbine under grid faults. Energy, 2012, 44, 853-861.	4.5	40
181	Evaluation of the mainstream wind turbine concepts considering their reliabilities. IET Renewable Power Generation, 2012, 6, 348-357.	1.7	13
182	Thermal optimised modulation methods of three-level neutral-point-clamped inverter for 10â€...MW wind turbines under low-voltage ride through. IET Power Electronics, 2012, 5, 920-927.	1.5	63

#	Article	IF	Citations
183	Analysis and control of wind-driven self-excited induction generators connected to the grid through power converters. Frontiers in Energy, 2012, 6, 403-412.	1.2	13
184	A DCM three-phase SEPIC converter for low-power PMSG. , 2012, , .		8
185	Reactive power control methods for improved reliability of wind power inverters under wind speed variations. , 2012, , .		11
186	Dual-boost-NPC converter for a dual three-phase PMSG wind energy conversion system. , 2012, , .		13
187	Grid integration of offshore superconducting wind turbine generators. , 2012, , .		1
188	System level wind turbine controls with seamless transitions between standalone and grid connected mode. , 2012, , .		0
189	Variable switching frequency PWM for three-phase converter for loss and EMI improvement. , 2012, , .		16
190	A review of power converter topology used with PMSG based wind power generation. , 2012, , .		23
191	Vector control of squirrel-cage induction generator for stand-alone wind power generation. , 2012, , .		9
192	Stator Current Harmonic Control With Resonant Controller for Doubly Fed Induction Generator. IEEE Transactions on Power Electronics, 2012, 27, 3207-3220.	5.4	304
193	Microgrid power flow study in grid-connected and islanding modes under different converter control strategies. , 2012, , .		10
194	Design and analysis of dynamic wind turbine simulator for wind energy conversion system. , 2012, , .		3
195	Parameter Identification of an Induction Machine at Standstill Using the Vector Constructing Method. IEEE Transactions on Power Electronics, 2012, 27, 905-915.	5.4	76
196	Direct Power Control for various topologies of three phase grid-connected Voltage Sources Converters using Sliding Mode Control. , 2012, , .		7
197	Stator harmonic current suppression for DFIG wind power system under distorted grid voltage. , 2012, , .		5
198	New chaotic phenomena occurring during voltage sags in small wind turbine systems based on back-to-back converters. , 2012, , .		0
199	Performance calculation and improved model research of direct-drive permanent magnet generator based on FEM. Science China Technological Sciences, 2012, 55, 2338-2345.	2.0	3
200	Operation and closed-loop control of wind-driven stand-alone doubly fed induction generators using a single inverter-battery system. IET Electric Power Applications, 2012, 6, 162.	1.1	42

#	Article	IF	Citations
201	Optimal reactive power allocation in an offshore wind farms with LCC-HVdc link connection. Renewable Energy, 2012, 40, 157-166.	4.3	27
202	Direct connection of WECS system to the MV grid with multilevel converters. Renewable Energy, 2012, 41, 336-344.	4.3	11
203	A sensorless control method for variable-speed small wind turbines. Renewable Energy, 2012, 43, 256-266.	4.3	36
204	A review of maximum power point tracking algorithms for wind energy systems. Renewable and Sustainable Energy Reviews, 2012, 16, 3220-3227.	8.2	597
205	A New Hybrid Modular Multilevel Converter for Grid Connection of Large Wind Turbines. IEEE Transactions on Sustainable Energy, 2013, 4, 1051-1064.	5.9	135
206	A Survey of Control Issues in PMSG-Based Small Wind-Turbine Systems. IEEE Transactions on Industrial Informatics, 2013, 9, 1211-1221.	7.2	193
207	Operation and Control of a DC-Grid Offshore Wind Farm Under DC Transmission System Faults. IEEE Transactions on Power Delivery, 2013, 28, 1356-1363.	2.9	77
208	Voltage sag/swell compensation using Z-source inverter DVR based on FUZZY controller. , 2013, , .		11
209	Design and Analysis of an MPPT Technique for Small-Scale Wind Energy Conversion Systems. IEEE Transactions on Energy Conversion, 2013, 28, 756-767.	3.7	189
210	Wind power in modern power systems. Journal of Modern Power Systems and Clean Energy, 2013, 1, 2-13.	3.3	28
211	Predictive power control of grid-connected four-level inverters in stationary reference frame. , 2013, , .		7
212	A MPPT vector control of electric network connected Wind Energy Conversion System employing PM Synchronous Generator. , 2013, , .		22
213	Common-mode EMI solutions for modular back-to-back converter systems. , 2013, , .		8
214	Power weakening control of the photovoltaic-battery system for seamless energy transfer in microgrids. , 2013, , .		20
215	Dynamic stability study of an isolated wind-diesel hybrid power system with wind power generation using IG, PMIG and PMSG: A comparison. International Journal of Electrical Power and Energy Systems, 2013, 53, 857-866.	3.3	37
216	Investigation on open winding PMSG system with the integration of full controlled and uncontrolled converter. , 2013, , .		9
217	Future on Power Electronics for Wind Turbine Systems. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2013, 1, 139-152.	3.7	745
218	Study of characteristics of wind turbine PMSG with reduced switches count converters. , 2013, , .		10

#	Article	IF	Citations
219	Real and reactive power control of hybrid excited windâ€driven gridâ€connected doubly fed induction generators. IET Power Electronics, 2013, 6, 1197-1208.	1.5	25
220	A single-phase to three-phase direct AC/AC modular multilevel cascade converter based on double-star bridge-cells (MMCC-DSBC). , 2013, , .		17
221	New Overall Control Strategy for Small-Scale WECS in MPPT and Stall Regions With Mode Transfer Control. IEEE Transactions on Energy Conversion, 2013, 28, 1082-1092.	3.7	80
222	Multi-Objective Model-Predictive Control for High-Power Converters. IEEE Transactions on Energy Conversion, 2013, 28, 652-663.	3.7	105
223	Grid integration of solar PV power using shunt connected VSC. , 2013, , .		4
224	Robust VAWT control system evaluation by coupled aerodynamic and electrical simulations. Renewable Energy, 2013, 59, 193-201.	4.3	18
225	An analytical literature review of stand-alone wind energy conversion systems from generator viewpoint. Renewable and Sustainable Energy Reviews, 2013, 28, 597-615.	8.2	75
226	Flicker Mitigation by Speed Control of Permanent Magnet Synchronous Generator Variable-Speed Wind Turbines. Energies, 2013, 6, 3807-3821.	1.6	19
227	A review of matrix converters applied to PMSG based wind energy conversion systems. , 2013, , .		19
228	Control scheme and power maximisation of permanent magnet synchronous generator wind farm connected to the electric network. International Journal of Systems, Control and Communications, 2013, 5, 214.	0.2	13
229	Design and development of maximum power point tracking in wind power optimization using fuzzy PLL controller. , 2013, , .		0
230	Sag detection algorithm for dynamic voltage restorer used in wind farms under unbalanced and distorted grid voltage conditions. , 2013, , .		5
231	Trends in Wind Turbine Generator Systems. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2013, 1, 174-185.	3.7	484
232	An adaptive Phase-Locked Loop algorithm for faster fault ride through performance of interconnected renewable energy sources. , 2013, , .		7
233	Comparison of modulation strategies driving a three-phase PWM delta-switch rectifier in wind energy conversion systems applications. , 2013, , .		2
234	Tvindkraft: Implementing a 500 kW 21-IGBT-based frequency converter for a 1.7 MW wind power conversion system. , 2013, , .		3
235	Novel tolerant fault DFIM drive for naval propulsion. , 2013, , .		3
236	Enhanced power quality compensation in PV single-phase grid-tied systems. , 2013, , .		3

#	Article	IF	Citations
237	Energy storage system by means of improved thermal performance of a 3 MW grid side wind power converter. , 2013, , .		5
238	Power control in AC autonomous and isolated microgrids with renewable energy sources and energy storage systems. , 2013, , .		11
239	Evaluation of the MPPT performance in small wind turbines by estimating the tip-speed ratio. , 2013, , .		4
240	Thermal analysis of multi-MW two-level generator side converters with reduced common-mode-voltage modulation methods for wind turbines. , 2013, , .		0
241	A highly reliable converter for wind power generation application. , 2013, , .		11
242	RNSIC-1 based wind energy conversion. , 2013, , .		0
243	A survey of shaft voltage reduction strategies for induction generators in wind energy applications. Renewable Energy, 2013, 50, 177-187.	4.3	23
244	Grid Interfacing of Multimegawatt Photovoltaic Inverters. IEEE Transactions on Power Electronics, 2013, 28, 2770-2784.	5.4	44
245	Monitoring Potential Defects in an IGBT Module Based on Dynamic Changes of the Gate Current. IEEE Transactions on Power Electronics, 2013, 28, 1479-1487.	5.4	105
246	Wind Turbine Generation System With Optimized DC-Link Design and Control. IEEE Transactions on Industrial Electronics, 2013, 60, 919-929.	5.2	38
247	New Overall Power Control Strategy for Variable-Speed Fixed-Pitch Wind Turbines Within the Whole Wind Velocity Range. IEEE Transactions on Industrial Electronics, 2013, 60, 2652-2660.	5.2	129
248	Control of a PMSG based Wind Energy Generation System for Power Maximization and Grid Fault Conditions. Energy Procedia, 2013, 42, 220-229.	1.8	73
249	Analysis of induction generators and advanced power electronic converters for wind energy conversion technology. , 2013, , .		2
250	Thermal behavior optimization in multi-MW wind power converter by reactive power circulation. , 2013, , .		2
251	Open-end-winding PMSG for wind energy conversion system with dual boost NPC converter. , 2013, , .		9
252	Harmonic elimination in multiple synchronous rotating reference frames of PMSG for wind power generation. , 2013, , .		7
253	Permanent-magnet synchronous-generator wind-energy systems with boost matrix converters. , 2013, , .		4
254	Performance enhancement of PMSG systems with control of generator-side converter using d-axis stator current controller. , 2013, , .		11

#	Article	IF	Citations
255	Joule losses and torque ripple caused by current waveforms in small and medium wind turbines. , 2013, , .		5
256	Review of Solid-State Transformer Technologies and Their Application in Power Distribution Systems. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2013, 1, 186-198.	3.7	869
257	Adaptive controller for PMSG wind turbine systems with back-to-back PWM converters. , 2013, , .		2
258	Wavelet-based fault detection in grid-connected photovoltaic systems. , 2013, , .		4
259	A new control strategy for grid interfacing inverter in wind energy applications. , 2013, , .		0
260	Improving fault ride through capability of DFIG during RSC flashover fault. , 2013, , .		3
261	Investigation of gate voltage oscillations in an IGBT module after partial bond wires lift-off. Microelectronics Reliability, 2013, 53, 282-287.	0.9	36
262	Thermal Analysis of Multilevel Grid-Side Converters for 10-MW Wind Turbines Under Low-Voltage Ride Through. IEEE Transactions on Industry Applications, 2013, 49, 909-921.	3.3	55
263	Reactive Power Influence on the Thermal Cycling of Multi-MW Wind Power Inverter. IEEE Transactions on Industry Applications, 2013, 49, 922-930.	3.3	146
264	Design of Protective Inductors for HVDC Transmission Line Within DC Grid Offshore Wind Farms. IEEE Transactions on Power Delivery, 2013, 28, 75-83.	2.9	70
265	Variable Switching Frequency PWM for Three-Phase Converters Based on Current Ripple Prediction. IEEE Transactions on Power Electronics, 2013, 28, 4951-4961.	5.4	167
266	Simulation Comparisons and Implementation of Induction Generator Wind Power Systems. IEEE Transactions on Industry Applications, 2013, 49, 1119-1128.	3.3	73
267	Design, control and 2D-FEM validation for an Double Stator Winding Induction Generator. , 2013, , .		11
268	Solid state transformer with low-voltage ride-through and current unbalance management capabilities. , 2013, , .		19
269	Modelling and control of dual generator type wind turbine (DGWT). , 2013, , .		0
270	A grid side converter current controller for accurate current injection under normal and fault ride through operation. , 2013, , .		24
271	New overall control strategy for wind energy conversion systems in MPPT and stall regions. , 2013, , .		9
272	Grid-connected Lithium-ion battery energy storage system for load leveling and peak shaving. , 2013, , .		33

#	Article	IF	Citations
273	Overview of grid connected doubly fed induction generator power quality. , 2013, , .		3
274	An inrush current mitigation method for the grid-connected converters in the low-voltage ride-through operation. , 2013, , .		3
275	1.5MVA grid-connected interleaved inverters using coupled inductors for wind power generation system. , 2013, , .		15
276	Voltage sensitivity based reactive power control on VSC-HVDC in a wind farm connected hybrid multi-infeed HVDC system. , 2013, , .		7
277	High order sliding mode control of doubly-fed induction generator under unbalanced grid faults. , 2013, , .		2
278	Grid-tied power converter for battery energy storage composed of 2-stage DC-DC converter. , 2013, , .		9
279	Power control in isolated Microgrids with renewable distributed energy sources and battey banks. , 2013, , .		5
280	Comparison of multi-MW converters considering the determining factors in wind power application. , 2013, , .		4
281	From simulation to real-time control for DFIM drive. , 2013, , .		1
282	Wind energy conversion into electricity by means of the rectifier with near sinusoidal input currentâ€1 converter. IET Renewable Power Generation, 2013, 7, 475-483.	1.7	5
283	Interleaved boost-half-bridge dual-input DC-DC converter with a PWM plus phase-shift control for fuel cell applications. , 2013, , .		5
284	Lifetime estimation for the power semiconductors considering mission profiles in wind power converter. , 2013, , .		31
285	An overview of power electronic converter technology for renewable energy systems. , 2013, , 80-105.		6
286	Improving the low voltage ride through of doubly fed induction generator during intermittent voltage source converter faults. Journal of Renewable and Sustainable Energy, 2013, 5, .	0.8	18
287	Fault Ride-Through Improvement of DFIG-WT by Integrating a Two-Degrees-of-Freedom Internal Model Control. IEEE Transactions on Industrial Electronics, 2013, 60, 1133-1145.	5.2	75
288	Control of Improved Full-Bridge Three-Level DC/DC Converter for Wind Turbines in a DC Grid. IEEE Transactions on Power Electronics, 2013, 28, 314-324.	5.4	109
289	Open-Circuit Fault Diagnosis in PMSG Drives for Wind Turbine Applications. IEEE Transactions on Industrial Electronics, 2013, 60, 3957-3967.	5.2	238
290	Investigation of PMSG Fed Diode-Clamped Multilevel Inverter for Wind Energy System. Advanced Materials Research, 2013, 768, 16-22.	0.3	0

#	Article	IF	Citations
291	Wind Energy Facility Reliability and Maintenance. Energy Systems, 2013, , 639-672.	0.5	7
292	Double stator winding induction generator for wind and hydro applications: 2D-FEM analysis and optimal design. , 2013, , .		7
293	AC Losses of a Grid-Connected Superconducting Wind Turbine Generator. IEEE Transactions on Applied Superconductivity, 2013, 23, 5201905-5201905.	1.1	27
294	An algorithm for boost converter efficiency optimization. , 2013, , .		5
295	Generalized average model of DC wind turbine with consideration of electromechanical transients. , 2013, , .		6
296	Large induction motors in distributed wind power generation. , 2013, , .		2
297	Analysis of stability aspects of a large constant power load in a local grid. , 2013, , .		6
298	Harmonic distortion in transmission networks due to wind farm interconnection using IGBT frequency inverters. , 2013, , .		1
299	Thermal Cycling Overview of Multi-Megawatt Two-Level Wind Power Converter at Full Grid Code Operation. IEEJ Journal of Industry Applications, 2013, 2, 173-182.	0.9	83
300	Wind Turbines Control: Features and Trends. Modern Applied Science, 2014, 8, .	0.4	4
301	Modular Multilevel Converter for wind power generation system connected to micro-grid. , 2014, , .		15
302	Review on Australian grid codes for wind power integration in comparison with international standards. , 2014, , .		18
303	Influences of power electronic converters on current-voltage behaviors during faults in DGUs-Part I: Wind energy conversion systems. , 2014, , .		2
304	A novel online adaptive sensorless identification and control of doubly fed induction generator. , 2014, , .		22
305	High power wind generator designs with less or no PMs: An overview. , 2014, , .		25
306	Analyzing the effect of inverter efficiency improvement in wind turbine systems. , 2014, , .		7
307	Model predictive control of smart microgrids. , 2014, , .		12
308	A review of the effects of distributed energy resources and power-electronic controlled loading on distribution network stability. , 2014, , .		3

#	Article	IF	Citations
309	Improved power quality control strategy for distributed generation systems. , 2014, , .		1
310	Maximum power point tracking of permanent magnet wind turbines equipped with direct matrix converter. Journal of Renewable and Sustainable Energy, 2014, 6, 053123.	0.8	9
311	Analyze and improve lifetime in 3L-NPC inverter from power cycle and thermal balance. , 2014, , .		2
312	Power Quality Improvement in Wind Energy Generation Using Fuzzy Logic Controller. Advanced Materials Research, 2014, 984-985, 730-739.	0.3	0
313	Back-to-back MVDC link for distribution system active connection: A network study. , 2014, , .		6
314	Design of the trap filter for the high power converters with parallel interleaved VSCs. , 2014, , .		19
315	Model based methods for rotor position detection of doubly-fed induction generator. , 2014, , .		1
316	Fault tolerant small wind power system for telecommunications with maximum power extraction. , 2014, , .		3
317	Variable Switching Frequency Direct Power Control based on Sliding Mode approach for grid connected voltage source converters. , 2014, , .		1
318	Pan Boolean PI control of grid-tied two-level inverter for wind power generation. , 2014, , .		0
319	Effect of intermittent voltage source converter faults on the overall performance of wind energy conversion system. International Journal of Sustainable Energy, 2014, 33, 606-618.	1.3	6
320	A novel high-power-factor single-stage converter for micro-scale wind power generation system. , 2014, , .		0
321	Nonâ€isolated multiâ€inputâ€“singleâ€output DC/DC converter for photovoltaic power generation systems. IET Power Electronics, 2014, 7, 2806-2816.	1.5	175
322	Transient modelling of loss and thermal dynamics in power semiconductor devices. , 2014, , .		13
323	Zero Sequence Current Suppression Strategy of Open Winding PMSG System with Common DC Bus based on Zero Vector Redistribution. IEEE Transactions on Industrial Electronics, 2014, , 1-1.	5.2	123
324	Wind energy fed Ac drives by using modified back to back converter and matrix converter. , 2014, , .		0
325	Application of STATCOM-HTS to improve DFIG performance and FRT during IGBT short circuit. , 2014, , .		8
326	A Comparative Performance Analysis of a Controlled D.C. and A.C. Motor Which Emulates Wind Turbines for Teaching and Research Purposes. International Journal of Electrical Engineering and Education, 2014, 51, 146-161.	0.4	3

#	Article	IF	Citations
327	Comparison of FSPM topologies applied in open-winding wind power system. , 2014, , .		0
329	Design for Reliability of Power Electronics in Renewable Energy Systems. Green Energy and Technology, 2014, , 295-338.	0.4	6
330	Distributed model predictive control for active power control of wind farm. , 2014, , .		4
331	Maximization of generated power from wind energy conversion systems using a doubly fed induction generator with active disturbance rejection control. , 2014, , .		11
332	A novel wind turbine concept based on a sandwich-typed PMSG and an improved converter. , 2014, , .		0
333	Power control strategy for variable-speed fixed-pitch wind turbines. , 2014, , .		6
334	Optimal controller tuning for the connection of a permanent magnet synchronous machine to a power system. , 2014, , .		0
335	Nonlinear control for a grid-connected Wind turbine with Induction Generator. , 2014, , .		2
336	Wind power generation control system with squirrel cage induction generator. , 2014, , .		7
337	Open Fault Characteristics and Simple Diagnosis Scheme in a Back-to-Back Converter for Wind Power Conversion. Applied Mechanics and Materials, 0, 541-542, 1022-1026.	0.2	0
338	Renewable energy system for an isolated micro grid. , 2014, , .		0
339	Applying the Superposition Procedure for the Harmonic Sharing Responsibility between Renewable Energy Power Plants and the Network. International Journal of Emerging Electric Power Systems, 2014, 15, 237-246.	0.6	7
340	Study of large-signal stability of an inverter-based generator using a Lyapunov function. , 2014, , .		33
341	A combined fault ride-through and power smoothing control method for full-converter wind turbines employing Supercapacitor Energy Storage System. Electric Power Systems Research, 2014, 106, 62-72.	2.1	65
342	Three-Vectors-Based Predictive Direct Power Control of the Doubly Fed Induction Generator for Wind Energy Applications. IEEE Transactions on Power Electronics, 2014, 29, 3485-3500.	5.4	143
343	Fifth harmonic and sag impact on PMSG wind turbines with a balancing new strategy for capacitor voltages. Energy Conversion and Management, 2014, 79, 721-730.	4.4	28
344	Stator Inductance Self-Tuning in an Air-Gap-Power-Vector-Based Observer for the Sensorless Control of Doubly Fed Induction Machines. IEEE Transactions on Industrial Electronics, 2014, 61, 139-148.	5.2	21
345	An adaptive control scheme for doubly fed induction generators â€“ wind turbine implementation. Journal of Experimental and Theoretical Artificial Intelligence, 2014, 26, 183-195.	1.8	6

#	Article	IF	Citations
346	Thermal Behavior Optimization in Multi-MW Wind Power Converter by Reactive Power Circulation. IEEE Transactions on Industry Applications, 2014, 50, 433-440.	3.3	45
348	Doubly fed induction generator based wind turbine systems subject to recurring grid faults. , 2014, , .		4
349	Model-Predictive Control of Grid-Tied Four-Level Diode-Clamped Inverters for High-Power Wind Energy Conversion Systems. IEEE Transactions on Power Electronics, 2014, 29, 2861-2873.	5.4	122
350	Experimental Verification of a Modular Multilevel Cascade Inverter Based on Double-Star Bridge Cells. IEEE Transactions on Industry Applications, 2014, 50, 509-519.	3.3	121
351	Partial resonant ac-link converters — A review. , 2014, , .		4
352	Power Control in AC Isolated Microgrids with Renewable Energy Sources and Energy Storage Systems. IEEE Transactions on Industrial Electronics, 2014, , 1-1.	5.2	123
353	Reduced cost of reactive power in doubly fed induction generator wind turbine system with optimized grid filter. , 2014, , .		2
354	Distributed Control Systems for Small-Scale Power Networks: Using Multiagent Cooperative Control Theory. IEEE Control Systems, 2014, 34, 56-77.	1.0	263
355	Current-Ripple Prediction for Three-Phase PWM Converters. IEEE Transactions on Industry Applications, 2014, 50, 531-538.	3.3	92
356	Maximum power point tracking of a variable speed PMSG wind power system with DC link reduction technique. , 2014, , .		5
357	Hybrid parallel three-level converter topology for large wind turbine generation systems. , 2014, , .		6
358	Differential evolution methodâ€based output power optimisation of switched reluctance generator for wind turbine applications. IET Renewable Power Generation, 2014, 8, 795-806.	1.7	35
359	Operating and Loading Conditions of a Three-Level Neutral-Point-Clamped Wind Power Converter Under Various Grid Faults. IEEE Transactions on Industry Applications, 2014, 50, 520-530.	3.3	53
360	Repetitive Control With Adaptive Sampling Frequency for Wind Power Generation Systems. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2014, 2, 58-69.	3.7	61
361	A transformer inrush reduction technique for low-voltage ride-through operation of renewable converters. , 2014, , .		0
362	The state of the art of wind energy conversion systems and technologies: A review. Energy Conversion and Management, 2014, 88, 332-347.	4.4	479
363	Comparative performance of wind turbine driven PMSG with PI-controllers tuned using heuristic optimization algorithms. , 2014, , .		6
364	Adaptive sensorless Maximum Power Point Tracking control for PMSG Wind Energy Conversion Systems. , 2014, , .		6

#	Article	IF	Citations
365	Development and analysis of a single-stage converter for small-scale wind power system. , 2014, , .		4
366	Model-Based Predictive Rotor Current Control for Grid Synchronization of a DFIG Driven by an Indirect Matrix Converter. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2014, 2, 715-726.	3.7	59
367	The utilization of DFIG wind generation interconnected to a weak network with a large industrial load. , 2014, , .		1
368	Impacts of grounding configurations on responses of ground protective relays for DFIG-based WECSs. , 2014, , .		15
369	Utilization of DFIG on an islanded power generation and distribution system. , 2014, , .		1
370	Voltage regulation and maximum output power tracking of a 4.5kW permanent-magnet synchronous generator. , 2014, , .		0
371	Direct active and reactive power control of DFIG based wind energy conversion system. , 2014, , .		4
372	Power control of a small-scale standalone wind turbine for rural and remote areas electrification. , 2014, , .		4
373	A review of modulation and control strategies for matrix converters applied to PMSG based wind energy conversion systems. , 2014, , .		18
374	Dynamic modeling and performance evaluation of axial flux PMSG based wind turbine system with MPPT control. Ain Shams Engineering Journal, 2014, 5, 1157-1166.	3.5	22
375	Optimal Microgrid Control and Power-Flow Study With Different Bidding Policies by Using PowerWorld Simulator. IEEE Transactions on Sustainable Energy, 2014, 5, 282-292.	5.9	56
376	Power conversion interface for smallâ€capacity wind power generation system. IET Generation, Transmission and Distribution, 2014, 8, 689-696.	1.4	11
377	A Novel Transient Control Strategy for VSC-HVDC Connecting Offshore Wind Power Plant. IEEE Transactions on Sustainable Energy, 2014, 5, 1056-1069.	5.9	68
378	Potential of Type-1 Wind Turbines for Assisting With Frequency Support in Storage-Less Diesel Hybrid Mini-Grids. IEEE Transactions on Industrial Electronics, 2014, 61, 2297-2306.	5.2	9
379	Robust Thin-Film Generator Based on Segmented Contact-Electrification for Harvesting Wind Energy. ACS Applied Materials & Interfaces, 2014, 6, 8011-8016.	4.0	49
380	<inline-formula><tex-math>${cal L}_1$</tex-math></inline-formula> Adaptive Speed Control of a Small Wind Energy Conversion System for Maximum Power Point Tracking. IEEE Transactions on Energy Conversion, 2014, 29, 576-584.	3.7	55
381	Three-Phase Fault Direction Identification for Distribution Systems With DFIG-Based Wind DG. IEEE Transactions on Sustainable Energy, 2014, 5, 747-756.	5.9	41
382	Marine energy generation systems and related monitoring and control. IEEE Instrumentation and Measurement Magazine, 2014, 17, 27-32.	1.2	8

#	Article	IF	Citations
383	Modular Transformer Converter-Based Convertible Static Transmission Controller for Transmission Grid Management. IEEE Transactions on Power Electronics, 2014, 29, 6293-6306.	5.4	16
384	Flicker mitigation strategy for a doubly fed induction generator by torque control. IET Renewable Power Generation, 2014, 8, 91-99.	1.7	23
385	Advances in wind energy resource exploitation in urban environment: A review. Renewable and Sustainable Energy Reviews, 2014, 37, 613-626.	8.2	170
387	A novel voltage and frequency controller for standalone DFIG based Wind Energy Conversion System. Renewable and Sustainable Energy Reviews, 2014, 37, 69-89.	8.2	42
388	Modulation Methods for Neutral-Point-Clamped Wind Power Converter Achieving Loss and Thermal Redistribution Under Low-Voltage Ride-Through. IEEE Transactions on Industrial Electronics, 2014, 61, 835-845.	5.2	131
389	Effective capture of wind gusts in small wind turbines by using a full active rectifier. , 2014, , .		6
390	Offshore wind metadata management. International Journal of Metadata, Semantics and Ontologies, 2014, 9, 333.	0.2	0
391	Shaft speed ripples in wind turbines caused by tower shadow and wind shear. IET Renewable Power Generation, 2014, 8, 195-202.	1.7	27
392	Wind Turbines: Dynamic Modeling and Control. , 2014, , 2224-2250.		0
393	Power flow management and voltage control using solar and wind farm inverters in multi line system. , 2015, , .		2
394	Comparison of outer rotor permanent magnet and magnet-less generators for direct-drive wind turbine applications. , 2015, , .		11
395	Comparative study of power electronic converters for wind energy conversion system. , 2015, , .		3
396	Controller performance of variable speed wind driven doubly-fed induction generator. , 2015, , .		2
397	Containerized modular data centers powered by wind farms. , 2015, , .		0
398	Electrical machines for power generation in oscillating wave energy conversion system â€" A comparative study. , 2015, , .		3
399	Field oriented control of Doubly Fed Induction Generator in wind power system. , 2015, , .		2
400	Analysis on the harmonics and inter-harmonics of a variable speed wind turbine. Journal of Renewable and Sustainable Energy, 2015, 7, .	0.8	4
401	Hybrid Controller for Variable Speed Wind Energy Conversion System with Slip Energy Recovery Using Matrix Converter Topology. Periodica Polytechnica Electrical Engineering and Computer Science, 2015, 59, 160-174.	0.6	7

#	Article	IF	Citations
402	Induction Generator in Wind Power Systems. , 2015, , .		3
403	Scalar Controlled Boost PWM Rectifier for Micro Wind Energy Systems. Research Journal of Applied Sciences, Engineering and Technology, 2015, 10, 35-44.	0.1	0
404	Modeling and Coordinated Control Strategy of Large Scale Grid-Connected Wind/Photovoltaic/Energy Storage Hybrid Energy Conversion System. Mathematical Problems in Engineering, 2015, 2015, 1-14.	0.6	14
405	Collaborative Control of DFIG System During Network Unbalance Using Reduced-Order Generalized Integrators. IEEE Transactions on Energy Conversion, 2015, 30, 453-464.	3.7	56
406	High-power wind energy conversion systems: State-of-the-art and emerging technologies. Proceedings of the IEEE, 2015, 103, 740-788.	16.4	714
407	Preferable Operation Modes of a Wind Turbine with a Differential Planetary Gearbox. Mechanisms and Machine Science, 2015, , 545-552.	0.3	2
409	Future research directions for the wind turbine generator system. Renewable and Sustainable Energy Reviews, 2015, 49, 481-489.	8.2	121
410	Fault Diagnosis in a Permanent Magnet Synchronous Generator based Variable Speed Grid-connected Wind Power Conversion. International Journal of Control and Automation, 2015, 8, 339-352.	0.3	0
411	Differential evolution for power electronic circuit optimization. , 2015, , .		5
412	Experimental study on the surge protection of converters in direct-driven permanent-magnetic wind turbines. , 2015, , .		0
413	Short-term wind speed forecasting model based on ANN with statistical feature parameters. , 2015, , .		5
414	Super twisting sliding mode MPPT control of an IM based wind energy conversion system. , 2015, , .		0
415	Short circuit study of fixed speed wind turbines with STATCOM in distribution networks. , 2015, , .		7
416	Ride through capability of matrix converter for grid connected system under short voltage sag. , 2015, , .		0
417	Optimal modulation to reduce harmonics in inverters. , 2015, , .		0
418	DC-DC Chopper Excitation Control of WRSG for MPPT in Offshore Wind Farm. Procedia Technology, 2015, 21, 643-650.	1.1	2
419	A novel power control strategy for wind-driven permanent magnet synchronous generator based on a single leg multi-mode power converter. , 2015, , .		1
420	Power electronics in renewable energy smart grid: a review. International Journal of Industrial Electronics and Drives, 2015, 2, 43.	0.1	7

#	Article	IF	Citations
421	A robust and fast generic voltage sag detection technique. , 2015, , .		2
422	An integrated neural approach for maximum power point tracking and electrical losses minimization of wind generators with induction machines. , 2015, , .		0
423	Impact of series active voltage conditioners on modernized grid. , 2015, , .		0
424	Modeling and Analysis of an Offshore Wind Turbine With Fluid Power Transmission for Centralized Electricity Generation. Journal of Computational and Nonlinear Dynamics, 2015, 10, .	0.7	20
425	Predicative active disturbance rejection control for optimal power control of direct-driven PMSG with time delay. , 2015, , .		0
426	A Robust Synchronization to Enhance the Power Quality of Renewable Energy Systems. IEEE Transactions on Industrial Electronics, 2015, 62, 4858-4868.	5.2	145
427	Maximum Power Point Tracking Strategy for Large-Scale Wind Generation Systems Considering Wind Turbine Dynamics. IEEE Transactions on Industrial Electronics, 2015, 62, 2530-2539.	5.2	163
428	Line Filter Design of Parallel Interleaved VSCs for High-Power Wind Energy Conversion Systems. IEEE Transactions on Power Electronics, 2015, 30, 6775-6790.	5.4	108
429	Impacts of Grounding Configurations on Responses of Ground Protective Relays for DFIG-Based WECSsâ€"Part I: Solid Ground Faults. IEEE Transactions on Industry Applications, 2015, 51, 2804-2818.	3.3	34
430	Influences of Power Electronic Converters on Voltageâ€"Current Behaviors During Faults in DGUsâ€"Part I: Wind Energy Conversion Systems. IEEE Transactions on Industry Applications, 2015, 51, 2819-2831.	3.3	22
431	ACâ€"AC power electronic converters without DC energy storage: A review. Energy Conversion and Management, 2015, 92, 483-497.	4.4	42
432	Speed sensorâ€less maximum power point tracking and constant output power operation of windâ€driven wound rotor induction generators. IET Power Electronics, 2015, 8, 33-46.	1.5	20
433	Solving the wind farm layout optimization problem using random search algorithm. Renewable Energy, 2015, 78, 182-192.	4.3	166
434	Molecular Dynamics Calculations of CH₃ Sticking Coefficient onto Diamond Surfaces. Plasma Processes and Polymers, 2015, 12, 764-770.	1.6	13
435	Discrete Fourier series-based dual-sequence decomposition control of doubly-fed induction generator wind turbine under unbalanced grid conditions. Journal of Renewable and Sustainable Energy, 2015, 7, 023130.	0.8	4
436	Current control of a modular multilevel converter forÂHVDCÂapplications. Renewable Energy, 2015, 83, 318-331.	4.3	33
437	Grid-integrated permanent magnet synchronous generator based wind energy conversion systems: A technology review. Renewable and Sustainable Energy Reviews, 2015, 51, 1288-1305.	8.2	162
438	Aggregated models of permanent magnet synchronous generators wind farms. Renewable Energy, 2015, 83, 1287-1298.	4.3	38

#	Article	IF	Citations
439	Doubly-fed induction generator drive based WECS using fuzzy logic controller. Frontiers in Energy, 2015, 9, 272-281.	1.2	17
440	Power Electronic Drives, Controls, and Electric Generators for Large Wind Turbinesâ€“An Overview. Electric Power Components and Systems, 2015, 43, 1406-1421.	1.0	42
441	Low cost wind energy conversion system based on the discontinuous conduction mode threeâ€phase semiâ€controlled rectifier. IET Power Electronics, 2015, 8, 851-859.	1.5	4
442	Deployment of wireless sensor network in dispersed renewable energy sources for increasing efficiency of power distribution networks. Journal of Modern Power Systems and Clean Energy, 2015, 3, 610-618.	3.3	5
443	On a DC micro-grid incorporating with electric vehicle as movable energy storage source. , 2015, , .		1
444	Sub-module Short Circuit Fault Diagnosis in Modular Multilevel Converter Based on Wavelet Transform and Adaptive Neuro Fuzzy Inference System. Electric Power Components and Systems, 2015, 43, 1080-1088.	1.0	32
445	Distributed Model Predictive Control of a Wind Farm for Optimal Active Power ControlPart I: Clustering-Based Wind Turbine Model Linearization. IEEE Transactions on Sustainable Energy, 2015, 6, 831-839.	5.9	130
446	Squirrel-cage induction generator system using hybrid wavelet fuzzy neural network control for wind power applications. Neural Computing and Applications, 2015, 26, 911-928.	3.2	10
447	Enhancing SCIG-based wind turbine generator performance through reactive power control. , 2015, , .		6
448	A Rotating Speed Controller Design Method for Power Leveling by Means of Inertia Energy in Wind Power Systems. IEEE Transactions on Energy Conversion, 2015, 30, 1052-1060.	3.7	19
449	A review of low-voltage ride-through enhancement methods for permanent magnet synchronous generator based wind turbines. Renewable and Sustainable Energy Reviews, 2015, 47, 399-415.	8.2	171
450	Reduced Cost of Reactive Power in Doubly Fed Induction Generator Wind Turbine System With Optimized Grid Filter. IEEE Transactions on Power Electronics, 2015, 30, 5581-5590.	5.4	82
451	Harmonic comparison with modular multilevel converter of multi connection wind energy systems. , 2015, , .		2
452	Comparison between grid side and inverter side current control for parallel interleaved grid connected converters. , 2015, , .		2
453	Improved thermal couple impedance model and thermal analysis of multi-chip paralleled IGBT module. , 2015, , .		23
454	Multi-timescale modelling for the loading behaviours of power electronics converter. , 2015, , .		27
455	Wind farm node connected DFIG/back-to-back converter coupling transient model for grid integration studies. Energy Conversion and Management, 2015, 106, 428-439.	4.4	8
456	Optimization of a direct-drive wind power generation system by using PMSG. , 2015, , .		1

#	Article	IF	Citations
457	Analysis and control of capacitorâ€excited induction generators connected to a microâ€grid through power electronic converters. IET Generation, Transmission and Distribution, 2015, 9, 911-920.	1.4	24
458	Direct torque control for squirrel cage induction generator based on wind energy conversion system with battery energy storage system. , 2015, , .		11
459	A New Protection Scheme Considering Fault Ride Through Requirements for Transmission Level Interconnected Wind Parks. IEEE Transactions on Industrial Informatics, 2015, 11, 1324-1333.	7.2	59
460	Induction machines sensorsâ€less wind generator with integrated intelligent maximum power point tracking and electric losses minimisation technique. IET Control Theory and Applications, 2015, 9, 1831-1838.	1.2	7
461	Analysis and comparison of current-source-converter-based medium-voltage PMSG wind energy conversion systems. , 2015, , .		7
462	Control of doubly fed induction generator connected to variable speed wind turbine. , 2015, , .		2
463	Impacts of grounding configurations on responses of ground protective relays for DFIG-based WECSs-Part II: High-impedance ground faults. , 2015, , .		1
464	Impacts of Grounding Configurations on Responses of Ground Protective Relays for DFIG-Based WECSs-Part II: High-Impedance Ground Faults. IEEE Transactions on Industry Applications, 2015, , 1-1.	3.3	9
465	An Adaptive Tuning Mechanism for Phase-Locked Loop Algorithms for Faster Time Performance of Interconnected Renewable Energy Sources. IEEE Transactions on Industry Applications, 2015, 51, 1792-1804.	3.3	56
466	Implementation of Fault Ride-Through Techniques of Grid-Connected Inverter for Distributed Energy Resources With Adaptive Low-Pass Notch PLL. IEEE Transactions on Power Electronics, 2015, 30, 2859-2871.	5.4	89
467	Impact of VSC faults on dynamic performance and low voltage ride through of DFIG. International Journal of Electrical Power and Energy Systems, 2015, 65, 334-347.	3.3	17
469	A four-leg three-level neutral-point-clamped inverter for offshore wind turbine with VSC-based HVDC transmission. International Transactions on Electrical Energy Systems, 2015, 25, 17-37.	1.2	2
470	Model Predictive Current Control of Grid-Connected Neutral-Point-Clamped Converters to Meet Low-Voltage Ride-Through Requirements. IEEE Transactions on Industrial Electronics, 2015, 62, 1503-1514.	5.2	169
471	Investigation of Open-Winding PMSG System With the Integration of Fully Controlled and Uncontrolled Converter. IEEE Transactions on Industry Applications, 2015, 51, 429-439.	3.3	42
472	Active Rectifier With Integrated System Control for Microwind Power Systems. IEEE Transactions on Sustainable Energy, 2015, 6, 60-69.	5.9	20
473	Tunable reverse electrodialysis microplatform with geometrically controlled self-assembled nanoparticle network. Lab on A Chip, 2015, 15, 168-178.	3.1	58
474	Feasibility study of a hybrid wind turbine system â€“ Integration with compressed air energy storage. Applied Energy, 2015, 137, 617-628.	5.1	87
475	Fault detection in HVDC-connected wind farm with full converter generator. International Journal of Electrical Power and Energy Systems, 2015, 64, 833-838.	3.3	13

#	Article	IF	Citations
476	Thermal Loading and Lifetime Estimation for Power Device Considering Mission Profiles in Wind Power Converter. IEEE Transactions on Power Electronics, 2015, 30, 590-602.	5.4	447
477	Optimal Maintenance Management of Offshore Wind Farms. Energies, 2016, 9, 46.	1.6	73
478	A Maximum Power Point Tracking Control Algorithms for a PMSGâ€based WECS for Isolated Applications: Critical Review. , 0, , .		7
479	Estimation of Stator Resistance and Rotor Flux Linkage in SPMSM Using CLPSO with Opposition-Based-Learning Strategy. Journal of Control Science and Engineering, 2016, 2016, 1-7.	0.8	3
480	Analysis and Solution for Operations of Overcurrent Relay in Wind Power System. Energies, 2016, 9, 458.	1.6	7
481	Feedback Linearization Controller for a Wind Energy Power System. Energies, 2016, 9, 771.	1.6	12
482	An Improved Adaptive-Torque-Gain MPPT Control for Direct-Driven PMSG Wind Turbines Considering Wind Farm Turbulences. Energies, 2016, 9, 977.	1.6	26
483	Wind energy harvesting and self-powered flow rate sensor enabled by contact electrification. Journal Physics D: Applied Physics, 2016, 49, 215601.	1.3	39
484	3D FEM analysis, dynamic modeling, and performance assessment of transverse flux PMSG for smallâ€scale gearless wind energy conversion systems. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2016, 29, 592-608.	1.2	1
485	Controller saturation nonlinearity in doubly fed induction generatorâ€based wind turbines under unbalanced grid conditions. International Journal of Circuit Theory and Applications, 2016, 44, 1602-1619.	1.3	6
486	A new nine-level single-DC source-based inverter topology for distributed generation. , 2016, , .		3
487	Inductorless boost rectifier for small power wind energy converters. , 2016, , .		1
488	Modeling and identification of harmonic instability problems in wind farms. , 2016, , .		17
489	A generator-converter design for direct drive wind turbines. , 2016, , .		2
490	Unity power factor standalone wind battery charger. , 2016, , .		0
491	Control of multi-level voltage source converters integrating a wind turbine system into the grid. , 2016, , .		4
492	Resonant based backstepping direct power control strategy for DFIG under both balanced and unbalanced grid conditions. , 2016, , .		4
493	High mobility BaSnO3 films and field effect transistors on non-perovskite MgO substrate. Applied Physics Letters, 2016, 109, .	1.5	66

#	Article	IF	Citations
494	A New DC/DC Buck-Boost Converter-DC Motor System: Modeling and Simulation. , 2016, , .		4
498	Development of an effective MPPT method suitable to a stand-alone, low-cost wind turbine system. , 2016, , .		4
499	Wind power plant voltage control optimization with embedded application of wind turbines and STATCOM. , 2016, , .		5
500	Double input Z-source inverter applicable in dual-star PMSG based wind turbine. International Journal of Electrical Power and Energy Systems, 2016, 82, 49-57.	3.3	20
501	Reduction of harmonics in grid-connected inverters using variable switching frequency. International Journal of Electrical Power and Energy Systems, 2016, 82, 242-251.	3.3	18
502	Performance comparison of transfer switch topologies in switched-doubly-fed machine drives. , 2016, , .		1
503	An autonomous power management strategy based on DC bus signaling for solid-state transformer interfaced PMSG wind energy conversion system. , 2016, , .		9
504	Solid-State Transfer Switch Topologies for a Switched Doubly Fed Machine Drive. IEEE Transactions on Power Electronics, 2016, 31, 5709-5720.	5.4	9
505	Technological evolution of onshore wind turbinesâ€"a marketâ€based analysis. Wind Energy, 2016, 19, 2171-2187.	1.9	85
506	Activity and stability performance of multifunctional catalyst (Ni/CaO and Ni/Ca12Al14O33CaO) for bio-hydrogen production from sorption enhanced biogas steam reforming. International Journal of Hydrogen Energy, 2016, 41, 7318-7331.	3.8	42
507	Coordinated Voltage Control of a Wind Farm Based on Model Predictive Control. IEEE Transactions on Sustainable Energy, 2016, 7, 1440-1451.	5.9	79
508	Adaptive Hierarchical Voltage Control of a DFIG-Based Wind Power Plant for a Grid Fault. IEEE Transactions on Smart Grid, 2016, 7, 2980-2990.	6.2	44
509	A low-voltage generator-converter topology for Direct Drive Wind Turbines. , 2016, , .		5
510	Three-phase reactive power control using one-cycle controller for wind energy conversion systems. , 2016, , .		2
511	Passive Filters Applied to a Small Wind Turbine Based System. IEEE Latin America Transactions, 2016, 14, 3291-3298.	1.2	3
512	Periodic small-signal analysis as a tool to build transient stability models of VSC-based devices. , 2016, , .		3
513	Modeling and control of voltage source converters for grid integration of a wind turbine system. , 2016, , .		14
514	Parallel Differential Evolution Based on Distributed Cloud Computing Resources for Power Electronic Circuit Optimization. , 2016, , .		9

#	Article	IF	Citations
516	Field Oriented Control of DFIG Based Wind Energy System Using Battery Energy Storage System. Procedia Technology, 2016, 24, 1203-1210.	1.1	9
517	A Dynamic Programming based method for optimizing power system restoration with high wind power penetration. , 2016, , .		5
518	Design of power electronic transformer based variable speed wind energy conversion system. , 2016, , .		3
519	Flatness-based adaptive neurofuzzy control of induction generators using output feedback. Neurocomputing, 2016, 216, 684-699.	3.5	2
520	A survey of fault diagnosis for onshore grid-connected converter in wind energy conversion systems. Renewable and Sustainable Energy Reviews, 2016, 66, 345-359.	8.2	88
521	Chapter 3 Simulation of Power Electronics. , 2016, , 51-134.		0
522	Efficient approach for harmonic resonance identification of large Wind Power Plants. , 2016, , .		13
523	Three-phase PFC rectifier with high efficiency and low cost for small PM synchronous wind generators. , 2016, , .		5
524	Multi-objective optimization of large wind farm parameters for harmonic instability and resonance conditions. , 2016, , .		9
525	PMSG Based Wind Energy Conversion System for Maximum Power Extraction. , 2016, , .		4
526	Energy and the Environment. , 2016, , 363-452.		17
527	DC bus current analysis considering AC current ripple in three-phase voltage source converters. , 2016, , .		4
528	A New Family of Multi-Input Converters Based on Three Switches Leg. IEEE Transactions on Industrial Electronics, 2016, 63, 6812-6822.	5.2	66
529	Coordinated Voltage Control in Offshore HVDC Connected Cluster of Wind Power Plants. IEEE Transactions on Sustainable Energy, 2016, 7, 1592-1601.	5.9	48
530	Segmented wind energy harvester based on contact-electrification and as a self-powered flow rate sensor. Chemical Physics Letters, 2016, 653, 96-100.	1.2	23
531	Stand alone synchronous operation of wound rotor induction generator. , 2016, , .		0
532	Wind-driven SEIG supplying DC microgrid through a single-stage power converter. Engineering Science and Technology, an International Journal, 2016, 19, 1600-1607.	2.0	16
533	A temperature spectrum density distribution based condition evaluation method and application in IGBT. Applied Thermal Engineering, 2016, 106, 1440-1457.	3.0	15

#	Article	IF	Citations
534	Modeling of wind farm output considering wind speed spatiotemporal distribution and wind turbine operational statuses. International Transactions on Electrical Energy Systems, 2016, 26, 1526-1539.	1.2	5
535	Transient voltage control of a DFIG-based wind power plant for suppressing overvoltage using a reactive current reduction loop. Journal of International Council on Electrical Engineering, 2016, 6, 140-145.	0.4	3
536	Sensorless model predictive control scheme of windâ€driven doubly fed induction generator in dc microgrid. IET Renewable Power Generation, 2016, 10, 514-521.	1.7	54
537	Sub-synchronous resonance in series compensated wind farm: A review. Renewable and Sustainable Energy Reviews, 2016, 55, 1010-1029.	8.2	61
538	A review of conventional and advanced MPPT algorithms for wind energy systems. Renewable and Sustainable Energy Reviews, 2016, 55, 957-970.	8.2	401
539	A comprehensive review of low-voltage-ride-through methods for fixed-speed wind power generators. Renewable and Sustainable Energy Reviews, 2016, 55, 823-839.	8.2	62
540	Control of a Small Wind Turbine in the High Wind Speed Region. IEEE Transactions on Power Electronics, 2016, 31, 6980-6991.	5.4	41
541	Sliding Mode Control of Induction Generator Wind Turbine Connected to the Grid. Studies in Computational Intelligence, 2016, , 531-553.	0.7	10
543	Monitoring chip fatigue in an IGBT module based on grey relational analysis. Microelectronics Reliability, 2016, 56, 49-52.	0.9	17
544	Predictive Control of a Back-to-Back NPC Converter-Based Wind Power System. IEEE Transactions on Industrial Electronics, 2016, 63, 4615-4627.	5.2	79
545	Highâ€voltage gain zeroâ€current switching pushâ€“pull resonant converter for small energy sources. IET Power Electronics, 2016, 9, 835-845.	1.5	9
546	A Transformer Inrush Reduction Technique for Low-Voltage Ride-Through Operation of Renewable Converters. IEEE Transactions on Industry Applications, 2016, 52, 2467-2474.	3.3	7
547	Thermo-fluid simulation for the thermal design of the IGBT module in the power conversion system. Microelectronics Reliability, 2016, 59, 64-72.	0.9	8
548	On the rejection of internal and external disturbances in a wind energy conversion system with direct-driven PMSG. ISA Transactions, 2016, 61, 95-103.	3.1	57
549	Observerâ€based scheme for tuning the control of variable speed wind turbines operating in hostile environments. IET Renewable Power Generation, 2016, 10, 418-425.	1.7	3
550	Induction-Machines-Based Wind Generators With Neural Maximum Power Point Tracking and Minimum Losses Techniques. IEEE Transactions on Industrial Electronics, 2016, 63, 944-955.	5.2	28
551	Cost on Reliability and Production Loss for Power Converters in the Doubly Fed Induction Generator to Support Modern Grid Codes. Electric Power Components and Systems, 2016, 44, 152-164.	1.0	2
552	Design and control of a grid tied 6-switch converter for two independent low power wind energy resources based on PMSGs with MPPT capability. Renewable Energy, 2016, 87, 532-543.	4.3	23

#	Article	IF	Citations
553	Rectifier topologies for permanent magnet synchronous generator on wind energy conversion systems: A review. Renewable and Sustainable Energy Reviews, 2016, 54, 1334-1344.	8.2	55
554	A Control Algorithm for Electric Vehicle Fast Charging Stations Equipped With Flywheel Energy Storage Systems. IEEE Transactions on Power Electronics, 2016, 31, 6674-6685.	5.4	86
555	Incorporated Operation Control of DC Microgrid and Electric Vehicle. IEEE Transactions on Industrial Electronics, 2016, 63, 202-215.	5.2	59
556	Dynamic Loads of Variable-Speed Wind Energy Conversion System. IEEE Transactions on Industrial Electronics, 2016, 63, 178-188.	5.2	28
557	A Medium-Voltage Large Wind Turbine Generation System Using an AC/AC Modular Multilevel Cascade Converter. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2016, 4, 534-546.	3.7	42
558	AdaptiveQâ€“VScheme for the Voltage Control of a DFIG-Based Wind Power Plant. IEEE Transactions on Power Electronics, 2016, 31, 3586-3599.	5.4	60
559	DC-Bus Voltage Control Stability Affected by AC-Bus Voltage Control in VSCs Connected to Weak AC Grids. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2016, 4, 445-458.	3.7	149
560	Direct Voltage Control With Slip Angle Estimation to Extend the Range of Supported Asymmetric Loads for Stand-Alone DFIG. IEEE Transactions on Power Electronics, 2016, 31, 1015-1025.	5.4	42
561	A Single-Sensor-Based MPPT Controller for Wind-Driven Induction Generators Supplying DC Microgrid. IEEE Transactions on Power Electronics, 2016, 31, 1161-1172.	5.4	115
562	Doubly Fed Induction Generator Wind Turbine Systems Subject to Recurring Symmetrical Grid Faults. IEEE Transactions on Power Electronics, 2016, 31, 1143-1160.	5.4	33
563	Three-Vector-Based Low-Complexity Model Predictive Direct Power Control Strategy for Doubly Fed Induction Generators. IEEE Transactions on Power Electronics, 2017, 32, 773-782.	5.4	114
565	Analysis, Design, Modeling, and Control of an Interleaved-Boost Full-Bridge Three-Port Converter for Hybrid Renewable Energy Systems. IEEE Transactions on Power Electronics, 2017, 32, 1138-1155.	5.4	134
566	Optimized hierarchical power oscillations control for distributed generation under unbalanced conditions. Applied Energy, 2017, 194, 343-352.	5.1	64
567	Condition Monitoring IGBT Module Bond Wires Fatigue Using Short-Circuit Current Identification. IEEE Transactions on Power Electronics, 2017, 32, 3777-3786.	5.4	80
568	Impedance-Based High-Frequency Resonance Analysis of DFIG System in Weak Grids. IEEE Transactions on Power Electronics, 2017, 32, 3536-3548.	5.4	72
569	MPPT control of wind turbines by direct adaptive fuzzy-PI controller and using ANN-PSO wind speed estimator. Journal of Renewable and Sustainable Energy, 2017, 9, .	0.8	37
570	A Control Approach for a Small-Scale PMSG-Based WECS in the Whole Wind Speed Range. IEEE Transactions on Power Electronics, 2017, 32, 9117-9130.	5.4	32
571	Solid-State-Transformer-Interfaced Permanent Magnet Wind Turbine Distributed Generation System With Power Management Functions. IEEE Transactions on Industry Applications, 2017, 53, 3849-3861.	3.3	56

#	Article	IF	Citations
572	Reactive Power Compensation and Negative-Sequence Current Suppression System for Electrical Railways With YNvd-Connected Balance Transformerâ€”Part II: Implementation and Verification. IEEE Transactions on Power Electronics, 2017, 32, 9031-9042.	5.4	6
573	Wind energy potential in Chile: Assessment of a small scale wind farm for residential clients. Energy Conversion and Management, 2017, 140, 71-90.	4.4	39
574	A flexible power control strategy for rotor-side converter of DFIG under unbalanced grid voltage sags. International Journal of Electrical Power and Energy Systems, 2017, 90, 64-75.	3.3	14
575	Resonant-Based Backstepping Direct Power Control Strategy for DFIG Under Both Balanced and Unbalanced Grid Conditions. IEEE Transactions on Industry Applications, 2017, 53, 4821-4830.	3.3	56
576	Wind Energy Systems. Proceedings of the IEEE, 2017, 105, 2116-2131.	16.4	182
577	Flexible IQâ€“V Scheme of a DFIG for Rapid Voltage Regulation of a Wind Power Plant. IEEE Transactions on Industrial Electronics, 2017, 64, 8832-8842.	5.2	25
578	Adaptive proportional-resonant controller based reactive power control for wind energy conversion systems. , 2017, , .		7
579	Modulation strategy for highly reliable cascade H-Bridge inverter based on discontinuous PWM. , 2017, , .		7
580	A production economics analysis for quantifying the efficiency of wind turbines. Wind Energy, 2017, 20, 1501-1513.	1.9	11
581	Integrating an Offshore Wind Farm to an Existing Utility Power Network via an HVDC Collection Grid: Alternative Topology. , 2017, , 247-282.		0
582	Output Predictor-Based Active Disturbance Rejection Control for a Wind Energy Conversion System With PMSG. IEEE Access, 2017, 5, 5205-5214.	2.6	83
583	Opportunities and challenges in control of smart grids â€“ Pakistani perspective. Renewable and Sustainable Energy Reviews, 2017, 71, 652-674.	8.2	50
585	Study on power quality issues of wind farm. , 2017, , .		3
586	DC/DC converter topologies for electrolyzers: State-of-the-art and remaining key issues. International Journal of Hydrogen Energy, 2017, 42, 23966-23985.	3.8	83
587	Mathematical modeling, dynamic response analysis, and control of PMSGâ€based wind turbines operating with an alternative control structure in power control mode. International Transactions on Electrical Energy Systems, 2017, 27, e2423.	1.2	14
588	Smallâ€signal stability of power system integrated with ancillaryâ€controlled largeâ€scale DFIGâ€based wind farm. IET Renewable Power Generation, 2017, 11, 1191-1198.	1.7	32
589	An advanced current controller with reduced complexity and improved performance under abnormal grid conditions. , 2017, , .		15
590	An Enhanced LVRT Scheme for DFIG-based WECSs under Both Balanced and Unbalanced Grid Voltage Sags. Electric Power Components and Systems, 2017, , 1-12.	1.0	5

#	Article	IF	Citations
591	Power split transmissions for wind energy systems. Mechanism and Machine Theory, 2017, 117, 160-174.	2.7	12
592	Control of a direct-driven permanent magnet synchronous generator-based wind turbine to achieve maximum wind-power extraction. , 2017, , .		4
593	Two Level Versus Matrix Converters Performance in Wind Energy Conversion Systems Employing DFIG. Journal of the Institution of Engineers (India): Series B, 2017, 98, 503-515.	1.3	2
594	A review of the performance of VSC-HVDC and MTDC systems. , 2017, , .		24
595	Analytical comparison of dual-input isolated dc-dc converter with an ac or dc inductor for renewable energy systems. , 2017, , .		4
596	Expansion of FRT operation range for grid-tied matrix converter system. , 2017, , .		0
597	FRT Method for Matrix Converter to Ensure Compatibility between Generator Torque Control and Grid Reactive Current Control. Electronics and Communications in Japan, 2017, 100, 19-28.	0.3	0
598	Load balance aware distributed differential evolution for computationally expensive optimization problems. , 2017, , .		8
599	Efficient single-phase cooling techniques for durable power electronics module. , 2017, , .		0
602	Field excitation scheme using a machine-side 4-leg converter in MW-range WRSG wind turbine systems. , 2017, , .		3
603	Mitigating reactive power and negative-sequence in distribution feeders with wind energy systems. , 2017, , .		0
604	Dynamic resonance sensitivity analysis in wind farms. , 2017, , .		3
606	Life cycle assessment and net energy analysis of offshore wind power systems. Renewable Energy, 2017, 102, 98-106.	4.3	71
607	A new bidirectional hybrid multilevel inverter with 49-level output voltage using a single dc voltage source and reduced number of on components. Electric Power Systems Research, 2017, 143, 703-714.	2.1	14
608	Dynamic performance of wind turbine conversion system using PMSG-based wind simulator. Electrical Engineering, 2017, 99, 431-439.	1.2	16
609	A new method for maximum power extraction using a singular perturbation theory for a PMSGâ€based wind turbine. Environmental Progress and Sustainable Energy, 2017, 36, 586-594.	1.3	5
610	Damping tie-line power oscillations by modulation feedback of wind generators. Electric Power Systems Research, 2017, 143, 739-747.	2.1	5
611	Doubly Fed Induction Generator System Resonance Active Damping Through Stator Virtual Impedance. IEEE Transactions on Industrial Electronics, 2017, 64, 125-137.	5.2	31

#	Article	IF	Citations
612	Overview of DFIG-Based Wind Power System Resonances Under Weak Networks. IEEE Transactions on Power Electronics, 2017, 32, 4370-4394.	5.4	122
613	A proposal for verification tests for the flicker measurement procedure of grid-connected wind turbines. Measurement: Journal of the International Measurement Confederation, 2017, 95, 116-127.	2.5	2
614	Review on DC collection grids for offshore wind farms with highâ€voltage DC transmission system. IET Power Electronics, 2017, 10, 2104-2115.	1.5	48
615	Selfâ€tuning fuzzyâ€Plâ€based current control algorithm for doubly fed induction generator. IET Renewable Power Generation, 2017, 11, 1714-1722.	1.7	33
616	Dynamic reactive power in compliance with low voltage ride-through enhancement for DFIG-based wind turbine. , 2017, , .		4
617	Grid-flux-oriented control and synchronization for a doubly-fed induction generator system. , 2017, , .		1
618	Artificial bee colony MPPT control of wind generator without speed sensors. , 2017, , .		2
619	Improved transient performance properties of distributed generation grid side converter current controller under grid voltage harmonic distortion and unbalanced faults. , 2017, , .		2
620	Modular multilevel matrix converter for offshore low frequency AC transmission system. , 2017, , .		14
621	A wind power integrated system based on a controllably inductive filtering and compensation method. , 2017, , .		1
622	Control strategy of cascaded multilevel converter based on dual active bridge for wind energy conversion system. , 2017, , .		0
623	Energy Storage and Power Electronics Technologies: A Strong Combination to Empower the Transformation to the Smart Grid. Proceedings of the IEEE, 2017, 105, 2191-2219.	16.4	126
624	Single-phase to three-phase reduced-switch-count converters applied to wind energy conversion systems using doubly-fed induction generator. , 2017, , .		6
625	Modeling of active yaw systems for small and medium wind turbines. , 2017, , .		7
626	Auxiliary subsystems of a General-Purpose IGBT Stack for high-performance laboratory power converters. Sadhana - Academy Proceedings in Engineering Sciences, 2017, 42, 1355-1362.	0.8	11
627	A distributed algorithm for demand-side management: Selling back to the grid. Heliyon, 2017, 3, e00457.	1.4	18
628	Direct power control of doubly fed induction generator based on extended power theory under unbalanced grid condition. , 2017, , .		3
629	Disturbance ride through of SVC stabilizing AC voltage at remote Renewable generations. , 2017, , .		0

#	Article	IF	Citations
630	Wind Turbine Technologies. , 2017, , 145-160.		11
631	Dynamic response analysis of a back-to-back converter based DFIG wind farm under variable wind speed. , 2017, , .		4
632	Crowbar protection of grid connected double fed induction generator with variable speed wind turbine. , 2017, , .		5
633	Harmonic instability source identification in large wind farms. , 2017, , .		2
634	Simplified methods for the analysis of selfâ€excited induction generators. IET Electric Power Applications, 2017, 11, 1636-1644.	1.1	30
635	A universal multiple-vectors-based model predictive direct power control for doubly fed induction generators. , 2017, , .		9
636	Performance Enhancement of Wind Energy System with Distribution Static Compensator. Indian Journal of Science and Technology, 2017, 10, 1-8.	0.5	3
637	Sliding Mode Control of a Variable- Speed Wind Energy Conversion System Using a Squirrel Cage Induction Generator. Energies, 2017, 10, 604.	1.6	40
638	A Comparison Study between Two MPPT Control Methods for a Large Variable-Speed Wind Turbine under Different Wind Speed Characteristics. Energies, 2017, 10, 613.	1.6	20
639	Low Voltage Ride-through Scheme of the PMSG Wind Power System Based on Coordinated Instantaneous Active Power Control. Energies, 2017, 10, 995.	1.6	12
640	Rotor Speed Control of a Direct-Driven Permanent Magnet Synchronous Generator-Based Wind Turbine Using Phase-Lag Compensators to Optimize Wind Power Extraction. Journal of Control Science and Engineering, 2017, 2017, 1-17.	0.8	8
641	A computationally efficient current controller for simultaneous injection of both positive and negative sequences. , 2017, , .		9
642	PMSG based wind power generation for an isolated irrigation system with inbuilt frequency regulation capability. , 2017, , .		1
643	Simplified hybrid nine-level stacked multiceli converter with reduced part count for grid-connected applications. , 2017, , .		2
644	Overview of offshore wind farm configurations. IOP Conference Series: Earth and Environmental Science, 2017, 93, 012009.	0.2	5
645	Optimal Power Transmission of Offshore Wind Power Using a VSC-HVdc Interconnection. Energies, 2017, 10, 1046.	1.6	10
646	Solid state transformer with a LC filter for distribution network. , 2017, , .		2
647	Unsynchronized Phasor-Based Protection Method for Single Line-to-Ground Faults in an Ungrounded Offshore Wind Farm with Fully-Rated Converters-Based Wind Turbines. Energies, 2017, 10, 526.	1.6	2

#	Article	IF	Citations
648	Dynamic modeling of wind turbine based axial flux permanent magnetic synchronous generator connected to the grid with switch reduced converter. Ain Shams Engineering Journal, 2018, 9, 125-135.	3.5	10
649	A multistage decision-dependent stochastic bilevel programming approach for power generation investment expansion planning. IISE Transactions, 2018, 50, 720-734.	1.6	11
650	High voltage gain dual active bridge converter with an extended operation range for renewable energy systems. , 2018, , .		14
651	Effectiveness of optimized control strategy and different hub height turbines on a real wind farm optimization. Renewable Energy, 2018, 126, 819-829.	4.3	26
652	Three-phase phase-locked loop synchronization algorithms for grid-connected renewable energy systems: A review. Renewable and Sustainable Energy Reviews, 2018, 90, 434-452.	8.2	118
653	Joint Slip Formulation Based on Experimental Results in Wind Turbine Lattice Towers. Journal of Structural Engineering, 2018, 144, .	1.7	8
654	Voltage regulation and power losses reduction in a wind farm integrated MV distribution network. Journal of Electrical Engineering, 2018, 69, 85-92.	0.4	5
655	L ₁ adaptive fuzzy control of wind energy conversion systems via variable structure adaptation for all wind speed regions. IET Renewable Power Generation, 2018, 12, 18-27.	1.7	15
656	Robust Predictive Control of Three-Level NPC Back-to-Back Power Converter PMSG Wind Turbine Systems With Revised Predictions. IEEE Transactions on Power Electronics, 2018, 33, 9588-9598.	5.4	160
657	Optimal sizing of a wind/solar/battery hybrid gridâ€connected microgrid system. IET Renewable Power Generation, 2018, 12, 72-80.	1.7	233
658	Fault prediction of power electronics modules and systems under complex working conditions. Computers in Industry, 2018, 97, 1-9.	5.7	23
659	Reactive power sharing improvement of droopâ€controlled DFIG wind turbines in a microgrid. IET Generation, Transmission and Distribution, 2018, 12, 842-849.	1.4	20
660	Application of Boost Converter to Increase the Speed Range of Dual-Stator Winding Induction Generator in Wind Power Systems. IEEE Transactions on Power Electronics, 2018, 33, 9599-9610.	5.4	22
661	Improved Direct Power Control for Grid-Connected Voltage Source Converters. IEEE Transactions on Industrial Electronics, 2018, 65, 8041-8051.	5.2	97
662	Three-Phase Grid-Connected WECS With Mechanical Power Control. IEEE Transactions on Sustainable Energy, 2018, 9, 1508-1517.	5.9	15
663	Auxiliary frequency controllers for the black start of stand-alone systems with predominance of wind generation. International Transactions on Electrical Energy Systems, 2018, 28, e2534.	1.2	3
664	A dynamic strategy to improve the ride-through capability of a fixed speed induction generator. International Transactions on Electrical Energy Systems, 2018, 28, e2538.	1.2	3
665	Computational Studies of Voltage Regulation Provided by Wind Farms Through Reactive Power Control. International Journal of Emerging Electric Power Systems, 2018, 19, .	0.6	1

#	Article	IF	Citations
666	Extracting potable water from humid air plus electric wind generation: A possible application for a Brazilian prototype. Renewable Energy, 2018, 121, 102-115.	4.3	22
667	A non-isolated buck-boost DC-DC converter with single switch. , 2018, , .		13
668	Asymmetric low-voltage ride-through scheme and dynamic voltage regulation in distributed generation units. , 2018, , .		4
669	Two-switch three-phase LLC resonant circuit with power factor correction for microscale wind power generation system. , 2018, , .		0
670	Current Source Generatorâ€“Converter Topology for Direct-Drive Wind Turbines. IEEE Transactions on Industry Applications, 2018, 54, 1663-1670.	3.3	27
671	Analysis and Mitigation of Power Quality Issues in Distributed Generation Systems Using Custom Power Devices. IEEE Access, 2018, 6, 16816-16833.	2.6	235
672	A Sliding-Mode Direct Power Control Strategy for DFIG Under Both Balanced and Unbalanced Grid Conditions Using Extended Active Power. IEEE Transactions on Power Electronics, 2018, 33, 1313-1322.	5.4	90
673	A Robust Control Scheme Based on ISMC for the Brushless Doubly Fed Induction Machine. IEEE Transactions on Power Electronics, 2018, 33, 3129-3140.	5.4	32
674	Analyzing effectiveness of LVRT techniques for DFIG wind turbine system and implementation of hybrid combination with control schemes. Renewable and Sustainable Energy Reviews, 2018, 81, 2487-2501.	8.2	37
675	Reducing Harmonic Instability and Resonance Problems in PMSG-Based Wind Farms. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2018, 6, 73-83.	3.7	16
676	Stalling-Free Control Strategies for Oscillating-Water-Column-Based Wave Power Generation Plants. IEEE Transactions on Energy Conversion, 2018, 33, 209-222.	3.7	39
677	Modified Inverter Control for DFIG-Based System on DC Microgrid. , 2018, , .		1
678	Design of H-infinity Controller for Wind Turbine in the Cold Weather Conditions. , 2018, , .		5
679	Performance Evaluation of a Semi-Dual-Active-Bridge with PPWM Plus SPS Control. Electronics (Switzerland), 2018, 7, 184.	1.8	5
680	Power-Split Hydrostatic Transmissions for Wind Energy Systems. Energies, 2018, 11, 3369.	1.6	8
681	High-Gain Modular Three-Phase Hybrid Boost Rectifier for Small Wind Energy Harvesting System. , 2018, , .		3
682	Impedance-Based Modelling Method for Length-Scalable Long Transmission Cable for Stability Analysis of Grid-Connected Inverter. , 2018, , .		4
683	Analysis and Design of a dc-dc Converter Using Visual Aid. , 2018, , .		1

#	Article	IF	Citations
684	Power Generation System for Wind Turbines Based on Novel Multizone Converters. , 2018, , .		0
685	Sensorless Rotor Position Detection of Doubly-Fed Induction Generators for Wind Energy Applications. , 2018, , .		5
686	A Comparative Study of MPC and Economic MPC of Wind Energy Conversion Systems. Energies, 2018, 11, 3127.	1.6	13
687	Current Predictive Control for the Semi-Controlled Open-Winding PMSM Generation System. , 2018, , .		2
688	Frequency and Temperature-Dependent Power Cable Modelling for Stability Analysis of Grid-Connected Inverter. , 2018, , .		6
689	A Reliable Double-Sided 1200-V/600-A Multichip Half-bridge Insulated Gate Bipolar Transistor (IGBT) Module with High Power Density. , 2018, , .		2
690	Reduced-Order Modelling Method of Grid-Connected Inverter with Long Transmission Cable. , 2018, , .		6
691	Performance Analysis of Modified SVM Technique for Three Level Converter for Stand Alone SEIG Based WECS. , 2018, , .		0
692	Improving Quality of 3 Phase Supply Generation Using MOSFET and Capacitor Combination for Driving Induction Motors. , 2018, , .		0
693	Autonomous Induction Generator Feeding Non-linear and Unbalanced Loads. , 2018, , .		1
694	Impact of Reactive Current Injection by Islanding Detection Techniques on the Voltage Quality of Distributed Generation. , 2018, , .		2
695	A Reliable Double-Sided 1200-V/600-A Multichip Half-bridge Insulated Gate Bipolar Transistor (IGBT) Module with High Power Density. , 2018, , .		0
696	Analysis of a Doubly Fed Induction Generator Through Modeling and Simulation. , 2018, , .		1
697	Mitigation of Low Voltage Contingency of Doubly FED Induction Generator Wind Farm Using Static Synchronous Compensator in South Africa. , 2018, , .		1
698	Performance Analysis of Vector Control Self Excited Induction Generator based wind Energy Conversion. , 2018, , .		2
699	Lyapunov-Based Control Strategy for a Multi-Function Single-Phase Inverter for Photovoltaic Systems. , 2018, , .		1
700	The Role of Power Electronics in Future Low Inertia Power Systems. , 2018, , .		24
701	FPGA-based closed-loop monitoring and control of doubly fed induction generator with single inverter and battery for wind energy conversion. Australian Journal of Electrical and Electronics Engineering, 2018, 15, 175-183.	0.7	1

#	Article	IF	Citations
702	A novel doubly fed wind energy power split system with par-tialscale converter and control strategy. , 2018, , .		0
703	A Modified RBF Neuro-Sliding Mode Control Technique for a Grid Connected PMSG Based Variable Speed Wind Energy Conversion System. Journal of Control Science and Engineering, 2018, 2018, 1-19.	0.8	3
704	Power Converter Interfaces for Wind Energy Systems - A Review. Communications in Computer and Information Science, 2018, , 776-788.	0.4	0
705	Fuzzy Logic Based Control Scheme for Doubly Fed Induction Generator Based Wind Turbine. International Journal of Emerging Electric Power Systems, 2018, 19, .	0.6	6
706	Review on the technoâ€commercial aspects of wind energy conversion system. IET Renewable Power Generation, 2018, 12, 1581-1608.	1.7	35
707	Robust Economic Model Predictive Control for Variable Speed Variable Pitch Wind Turbines. , 2018, , .		1
708	Transient Faults in Wind Energy Conversion Systems: Analysis, Modelling Methodologies and Remedies. Energies, 2018, 11, 2249.	1.6	8
709	Seven Level Hybrid Clamped (7L-HC) Converter in Medium Voltage Wind Energy Conversion Systems. , 2018, , .		3
710	Automatic reactive power compensation of an isolated wind-diesel hybrid grid. , 2018, , .		3
711	Multiple vertical axis wind turbines with passive rectification to a common DC-link. Renewable Energy, 2018, 127, 1101-1110.	4.3	0
712	Design of an advanced PLL for accurate phase angle extraction under grid voltage HIHs and DC offset. IET Power Electronics, 2018, 11, 995-1008.	1.5	35
713	A wave shaping approach of ferrite inductors exhibiting hysteresis using orthogonal field bias. AIP Advances, 2018, 8, 056643.	0.6	0
714	Implementation of a series Z-source very sparse matrix converter in a PMSG-based WECS. , 2018, , .		5
715	Advanced self-tuned pitch angle control based on fuzzy logic for grid connected variable-speed wind turbine system. , 2018, , .		7
716	Predictive algorithm for matrix converter control in wind energy conversion system based DFIG. , 2018, , .		4
717	Enhanced H₂ Production of TiO₂/ZnO Nanowires Co-Using Solar and Mechanical Energy through Piezo-Photocatalytic Effect. ACS Sustainable Chemistry and Engineering, 2018, 6, 10162-10172.	3.2	101
718	Performance Testing of an Active Multiport DC Link for Grid-Connected PMG-Based WECSs. IEEE Transactions on Industry Applications, 2018, 54, 5579-5589.	3.3	10
722	On Reducing the Shaft Torque Ripple of Small-to-Medium-Scale Wind Energy Conversion Systems Using Multi-Pulse Autotransformer Rectifier. Energies, 2018, 11, 379.	1.6	12

#	Article	IF	Citations
723	Wind Farm Grid Integration Architecture using Unified Expandable Power Converter. IEEE Transactions on Power Electronics, 2018, , 1-1.	5.4	10
724	Loss analysis of GaN based partial parallel isolated bidirectional full bridge boost converter. , 2018, , .		0
725	Performance evaluation of continuous and discontinuous pulse width modulation techniques for grid-connected PWM converter. International Transactions on Electrical Energy Systems, 2018, 28, e2609.	1.2	5
726	Mitigation of Power Quality Issues Due to High Penetration of Renewable Energy Sources in Electric Grid Systems Using Three-Phase APF/STATCOM Technologies: A Review. Energies, 2018, 11, 1491.	1.6	41
727	Fast transient and smooth steady state operation of PMSGs by a combined control system. , 2018, , .		2
728	Fundamental analysis of synchronous operation of autonomous induction generator. , 2018, , .		0
729	A new multi-port active DC-link for PMG-based WECSs. , 2018, , .		4
730	Combined control method for gridâ€side converter of doubly fed induction generatorâ€based wind energy conversion systems. IET Renewable Power Generation, 2018, 12, 943-952.	1.7	45
731	Study of out-of-step phenomena in grid-connected inverter-interfaced synchronous generators. , 2018, , .		0
732	Standalone and grid connected operations of a SynRG based WECS with BESS. , 2018, , .		7
733	Co-simulation and hardware implementation of multi-port rectifier for power system and renewable energy applications. Wind Engineering, 2019, 43, 162-174.	1.1	1
734	LMI based robust control design for multi-inputâ€“single-output DC/DC converter. International Journal of Dynamics and Control, 2019, 7, 379-387.	1.5	8
736	Analyses of efficiency/energy-savings of DC power distribution systems/microgrids: Past, present and future. International Journal of Electrical Power and Energy Systems, 2019, 104, 89-100.	3.3	53
737	Fuzzy Gain Scheduled PI-Based Airflow Control of an Oscillating Water Column in Wave Power Generation Plants. IEEE Journal of Oceanic Engineering, 2019, 44, 1058-1076.	2.1	13
738	Fractional Charging Converter With High Efficiency and Low Cost for Electrochemical Energy Storage Devices. IEEE Transactions on Industry Applications, 2019, 55, 7461-7470.	3.3	37
739	Comprehensive Overview of Low Voltage Ride Through Methods of Grid Integrated Wind Generator. IEEE Access, 2019, 7, 99299-99326.	2.6	142
740	Design of PLL gains to increase the stability margins of three-phase converters connected to weak grids. , 2019, , .		1
741	Compatibility of electrical generators for harvesting extended power from wind energy conversion system. Measurement and Control, 2019, 52, 1240-1251.	0.9	2

#	Article	IF	Citations
742	Powering the 21st century by wind energyâ€"Options, facts, figures. Applied Physics Reviews, 2019, 6, .	5.5	45
743	Experimental Study of the Summation of Flicker Caused by Wind Turbines. Energies, 2019, 12, 2404.	1.6	8
744	Speed Sensorless Control based on Stator Currents for PMSG Wind Energy Conversion Systems. , 2019, , .		3
745	Reliability analysis of detecting false alarms that employ neural networks: A real case study on wind turbines. Reliability Engineering and System Safety, 2019, 191, 106574.	5.1	47
746	Implementation and validation of backstepping control for PMSG wind turbine using dSPACE controller board. Energy Reports, 2019, 5, 807-821.	2.5	62
747	Optimal control strategy for a wind power hybrid energy storage system considering output power amendment. Journal of Engineering, 2019, 2019, 2732-2735.	0.6	2
748	Advanced analytics for detection and diagnosis of false alarms and faults: A real case study. Wind Energy, 2019, 22, 1622-1635.	1.9	49
749	Topology and Control of Hybrid Nine-Level Inverter. Lecture Notes on Multidisciplinary Industrial Engineering, 2019, , 111-118.	0.4	0
752	Mathematical modeling of PEM electrolyzer and design of a voltage controller by the SMPWM approach. , 2019, , .		10
753	A Novel Binary Negatively Correlated Search for Wind Farm Layout Optimization. , 2019, , .		2
754	Decentralized transfer of contingency reserve: Concept, benefit assessment, impacting factors, and benefit mechanism. Applied Energy, 2019, 255, 113728.	5.1	9
755	Design of Three Phase Solid State Transformer Deployed within Multi-Stage Power Switching Converters. Applied Sciences (Switzerland), 2019, 9, 3545.	1.3	4
756	MPPT Based PMSG Wind Turbine System Using Sliding Model Control (SMC) and Artificial Neural Network (ANN) Based Regression Analysis. IETE Journal of Research, 2019, , 1-9.	1.8	10
757	A Sensorless Drive Strategy for Open-End Winding PMSM With Common DC Voltage Based on Lower Switching Frequency. IEEE Transactions on Energy Conversion, 2019, 34, 1553-1562.	3.7	24
758	A Novel Low Voltage Ride-Through Technique of Three-Phase Grid-Connected Inverters Based on a Nonlinear Phase-Locked Loop. IEEE Access, 2019, 7, 66609-66622.	2.6	15
759	Systematic approach to construct and assess power electronic conversion architectures using graph theory and its application in a fuel cell system. IET Power Electronics, 2019, 12, 1499-1509.	1.5	3
760	Nonâ€isolated buckâ€"boost dcâ€"dc converter with quadratic voltage gain ratio. IET Power Electronics, 2019, 12, 1425-1433.	1.5	64
761	Comparative Study of Two Different Converters with its Controller for Grid Connected WECS with PMSG. International Journal of Energy Optimization and Engineering, 2019, 8, 1-24.	0.4	1

#	Article	IF	Citations
762	Full operational regimes for SPMSG-based WECS using generation of active current references. International Journal of Electrical Power and Energy Systems, 2019, 112, 428-441.	3.3	11
763	High Efficiency Electric Vehicle Fast Charging. , 2019, , .		1
764	An Inter Type-2 FCR Algorithm Based Tâ€“S Fuzzy Model for Short-Term Wind Power Interval Prediction. IEEE Transactions on Industrial Informatics, 2019, 15, 4934-4943.	7.2	42
765	Analysis and Design of a New Extendable SEPIC Converter with High Voltage Gain and Reduced Components for Photovoltaic Applications. , 2019, , .		10
766	An Improved Combined Control for PMSG-Based Wind Energy Systems to Enhance Power Quality and Grid Integration Capability. , 2019, , .		6
767	Direct Power Control of Doubly Fed Induction Generator Using Extended Power Theory Under Unbalanced Network. IEEE Transactions on Power Electronics, 2019, 34, 12024-12037.	5.4	46
768	Cascaded Hybrid Device Multilevel Converters for Wind Mill Applications. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 93-101.	0.2	1
769	Efficiency Comparison of AC and DC Distribution Networks for Modern Residential Localities. Applied Sciences (Switzerland), 2019, 9, 582.	1.3	38
770	Liquid-Cooled Aluminum Silicon Carbide Heat Sinks for Reliable Power Electronics Packages. Journal of Electronic Packaging, Transactions of the ASME, 2019, 141, .	1.2	9
771	Intelligent Airflow Controls for a Stalling-Free Operation of an Oscillating Water Column-Based Wave Power Generation Plant. Electronics (Switzerland), 2019, 8, 70.	1.8	10
772	Efficiency Analysis of Vienna Rectifier-Based Grid interface Systems for Low-Power PM WECS. Iranian Journal of Science and Technology - Transactions of Electrical Engineering, 2019, 43, 577-586.	1.5	2
773	Adaptive Sliding Mode Control for PMSG Wind Turbine Systems. Energies, 2019, 12, 595.	1.6	31
774	Online Open-Circuit Fault Detection and Location utilizing Estimated Instantaneous Amplitudes. , 2019, , .		0
775	Soft-target Model Predictive Control for PMSG-based Wind Generator. , 2019, , .		1
776	Evaluating the Broad Range Performance of a Radial-Flux PMSG. IEEE Latin America Transactions, 2019, 17, 1909-1917.	1.2	2
777	High Step-Up DC-DC Push-Pull Resonant Based on low Cost half-wave Class-D Rectifier. , 2019, , .		1
778	A Collaborative Control Strategy of DFIG System with Energy Storage in Weak Grid. , 2019, , .		1
779	DC-DC High Conversion Ratio Push-Pull Resonant Converter Based on Voltage Double Rectifier. , 2019, , .		2

#	Article	IF	Citations
780	Performance Study of a Grid Connected Permanent Magnet Synchronous Generator based Wind Turbine System. , 2019, , .		4
781	Power Control and Harmonic Current Mitigation from a Wind Power System with PMSG. , 2019, , .		1
782	Wind Turbine Generator Emulator with Current Control mode. , 2019, , .		1
783	Fault Characteristic Analysis of a Permanent Magnet Synchronous Generator-based Wind Farm. , 2019, , .		1
784	Particle swarm optimisation technique to improve energy efficiency of doublyâ€fed induction generators for wind turbines. Journal of Engineering, 2019, 2019, 4890-4895.	0.6	10
785	Power Smoothing in MCT System with Supercapacitor Based Energy Storage for Islanded Grid. , 2019, , .		1
786	Performance and Structural Load Analysis of Small and Medium Wind Turbines Operating with Active Speed Stall Control versus Pitch Control. , 2019, , .		3
787	Elaborated Direct Power Control Applied to Wind Power System under Variable Speed. , 2019, , .		0
788	Implementation of Voltage Stability using Tracking Algorithm in Wind Turbine Connected to the Grid. , 2019, , .		0
789	Simulation research of a wind turbine using SolidWorks software. Journal of Physics: Conference Series, 2019, 1398, 012001.	0.3	7
790	Design of Composite Energy Storage System for Wind Turbine under Gust. , 2019, , .		1
791	A Novel Hybrid Converter Proposed for Multi-MW Wind Generator for Offshore Applications. Energies, 2019, 12, 4167.	1.6	5
792	Output Feedback Sliding Mode Control of PEM EL-IBC System for Hydrogen Production. IFAC-PapersOnLine, 2019, 52, 85-90.	0.5	8
793	Investigation on Full-Converter-Based Wind Power Plant Behavior During Short-Circuits. , 2019, , .		1
794	Energetic Macroscopic Representation and Inversion-Based Control of a Grid-Connected MCT Power Generation System with Super-Capacitor Based Energy Storage Unit in Ushant Island. , 2019, , .		2
795	Offshore Wind Power Integration into Future Power Systems: Overview and Trends. Journal of Marine Science and Engineering, 2019, 7, 399.	1.2	57
796	Hybrid and Three-Level Three-Phase Rectifiers Using Interleaved DCM Boost Converters. IEEE Access, 2019, 7, 160168-160176.	2.6	6
797	VSC with Direct PI Power Control for Frequency Compensation in a Microgrid: a PBC Approach. , 2019, , .		0

#	Article	IF	Citations
798	Adaptive Maximum Power Point Tracking Control Strategy for Variable-Speed Wind Energy Conversion Systems with Constant Tracking Speed. , 2019, , .		5
799	A Novel Systematic Approach to Construct and Assess Power Electronic Conversion Architectures Using Graph Theory and Its Application in Battery Systems. , 2019, , .		1
800	Thermal Buffering Effect of Phase Change Material on Press-pack IGBT during Power Pulse. , 2019, , .		6
801	Analyzing of Wind Distributed Generation Configuration in Active Distribution Network. , 2019, , .		7
802	Dual Converter for Connection of a Doubly-Fed Induction Generator to a DC-Microgrid. , 2019, , .		4
803	AC-DC Power Conversion Systems for Open-End Winding PMSM Based on Vienna Rectifiers. , 2019, , .		3
804	Analytical Design of LC Filter Inductance for Two-Level Inverters Based on Maximum Ripple Current. , 2019, , .		5
805	Fuzzy Logic based hybrid type control implementation of a heaving wave energy converter. Energy, 2019, 170, 1202-1214.	4.5	21
806	Analysis and Application of Three-Phase SEIG With Power Converters for Supplying Single-Phase Grid From Wind Energy. IEEE Systems Journal, 2019, 13, 1813-1822.	2.9	33
807	Four-Switch Three-Phase Operation of Grid-Side Converter of Doubly Fed Induction Generator With Three Vectors Predictive Direct Power Control Strategy. IEEE Transactions on Industrial Electronics, 2019, 66, 7741-7752.	5.2	26
808	Angle-shaped triboelectric nanogenerator for harvesting environmental wind energy. Nano Energy, 2019, 56, 269-276.	8.2	127
809	An Analog Optimum Torque Control IC for a 200-W Wind Energy Harvesting System. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 1790-1794.	2.2	2
810	A Simple and Robust Sensorless Control Based on Stator Current Vector for PMSG Wind Power Systems. IEEE Access, 2019, 7, 8070-8080.	2.6	25
811	Multiâ€objective model predictive control of doublyâ€fed induction generators for wind energy conversion. IET Generation, Transmission and Distribution, 2019, 13, 21-29.	1.4	30
812	Black Diatom Colloids toward Efficient Photothermal Converters for Solar-to-Steam Generation. ACS Applied Materials & Interfaces, 2019, 11, 4531-4540.	4.0	22
813	Overview of emerging subsynchronous oscillations in practical wind power systems. Renewable and Sustainable Energy Reviews, 2019, 99, 159-168.	8.2	127
814	On the Inertia of Future More-Electronics Power Systems. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 2130-2146.	3.7	360
815	An Improved Virtual Inertia Control for Three-Phase Voltage Source Converters Connected to a Weak Grid. IEEE Transactions on Power Electronics, 2019, 34, 8660-8670.	5.4	103

#	Article	IF	Citations
816	Novel power capture optimization based sensorless maximum power point tracking strategy and internal model controller for wind turbines systems driven SCIG. Frontiers in Energy, 2019, 13, 742-756.	1.2	14
817	Water cycle algorithmâ€“based airflow control for oscillating water columnâ€“based wave energy converters. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2020, 234, 118-133.	0.7	6
818	Comparative Study of Optimization Techniques for Renewable Energy System. Archives of Computational Methods in Engineering, 2020, 27, 351-360.	6.0	14
819	Combined control of stand-alone energy conversion scheme for distributed sources: Development and performance analysis. International Journal of Electrical Power and Energy Systems, 2020, 115, 105480.	3.3	4
820	Unbiased Circular Leakage Centered Adaptive Filtering Control For Power Quality Improvement of Windâ€“Solar PV Energy Conversion System. IEEE Transactions on Sustainable Energy, 2020, 11, 1347-1357.	5.9	16
821	Adaptive third order terminal sliding mode power control of DFIG based wind farm for power system stabilisation. International Journal of Dynamics and Control, 2020, 8, 629-643.	1.5	6
822	Model Predictive Control of the Open-winding PMSG System Based on Three-Dimensional Reference Voltage-Vector. IEEE Transactions on Industrial Electronics, 2020, 67, 6312-6322.	5.2	31
823	High-order sliding mode control of DFIG under unbalanced grid voltage conditions. International Journal of Electrical Power and Energy Systems, 2020, 117, 105608.	3.3	36
824	Improved Virtual Synchronous Generator Control of DFIG to Ride-Through Symmetrical Voltage Fault. IEEE Transactions on Energy Conversion, 2020, 35, 672-683.	3.7	46
825	Current Source Inverter Based Grid Connected Hybrid PV-Wind Power Generation Unit. International Journal of Electronics, 2020, 107, 839-857.	0.9	7
826	The robustness assessment of doubly fed induction generator-wind turbine during short circuit. Energy and Environment, 2020, 31, 570-582.	2.7	17
827	Asymmetrical Fault Ride-Through Control Strategy for Rotor-Side Converter of DFIG. IEEE Transactions on Energy Conversion, 2020, 35, 1046-1053.	3.7	14
828	Vibration Characteristics of Rolling Element Bearings with Different Radial Clearances for Condition Monitoring of Wind Turbine. Applied Sciences (Switzerland), 2020, 10, 4731.	1.3	37
829	Wind Energy Conversion System Modeling toward Different Approaches. , 2020, , .		1
830	Coordinated voltage control of renewable energy power plants in weak sending-end power grid. Global Energy Interconnection, 2020, 3, 365-374.	1.4	1
831	Design and Modeling of a Magnetic-Coupling Monostable Piezoelectric Energy Harvester Under Vortex-Induced Vibration. IEEE Access, 2020, 8, 108913-108927.	2.6	32
832	Comprehensive review on low voltage ride through capability of wind turbine generators. International Transactions on Electrical Energy Systems, 2020, 30, e12524.	1.2	48
833	Development and Control of Generator-Converter Topology for Direct-Drive Wind Turbines. , 2020, , .		0

#	Article	IF	Citations
834	Rotor Speed Fluctuation Analysis for Rapid De-Loading of Variable Speed Wind Turbines. , 2020, , .		3
835	Thermal kinetic and mechanical behaviors of pressure-assisted Cu nanoparticles sintering: A molecular dynamics study. Results in Physics, 2020, 19, 103486.	2.0	19
836	Assessment of Technical Parameters of Renewable Energy System : An Overview. , 2020, , .		1
837	A New Structure for PMG-Based WECSs With Battery Storage Systems. IEEE Access, 2020, 8, 190356-190366.	2.6	3
838	Grid-Forming Control for DFIG Based Wind Farms to Enhance the Stability of LCC-HVDC. IEEE Access, 2020, 8, 156752-156762.	2.6	14
839	A Battery Storage System for PMG-based WECSs. , 2020, , .		0
840	An Ultra-Durable Windmill-Like Hybrid Nanogenerator for Steady and Efficient Harvesting of Low-Speed Wind Energy. Nano-Micro Letters, 2020, 12, 175.	14.4	68
841	Nonlinear Control and Observation of a PMSG Wind Turbine Through Unknown Wind Torque Characteristics. , 2020, , .		0
842	Fault Diagnosis of PMSG Wind Power Generation System Based on LMD and MSE. Complexity, 2020, 2020, 1-11.	0.9	7
843	An Electrical Stall Control Algorithm for Small-Scale Wind Generation System using Aerodynamic Observer. , 2020, , .		2
844	Rotational Speed Control Using ANN-Based MPPT for OWC Based on Surface Elevation Measurements. Applied Sciences (Switzerland), 2020, 10, 8975.	1.3	14
845	Half-Controlled Converters Connecting Open-End Winding Doubly-Fed Induction Generator to a DC-Microgrid. , 2020, , .		2
846	A Power Hardware-in-the-Loop Based Method for FAPR Compliance Testing of the Wind Turbine Converters Control. Energies, 2020, 13, 5203.	1.6	10
847	A Review Analysis on Performance and Classification of Wind Turbine Gearbox Technologies. IETE Journal of Research, 2022, 68, 3341-3355.	1.8	10
848	Power management techniques for grid-connected DC microgrids: A comparative evaluation. Applied Energy, 2020, 269, 115057.	5.1	47
849	Comparative analysis of MPPT algorithms based on Bat algorithm for PV systems under partial shading condition. Sustainable Energy Technologies and Assessments, 2020, 40, 100761.	1.7	43
850	A Technological Review on Multilevel Matrix Converter for Wind Power Generation System. , 2020, , .		0
851	Dynamic Frequency Support from a DFIG-Based Wind Turbine Generator via Virtual Inertia Control. Applied Sciences (Switzerland), 2020, 10, 3376.	1.3	16

#	Article	IF	Citations
852	Short-term frequency support of a doubly-fed induction generator based on an adaptive power reference function. International Journal of Electrical Power and Energy Systems, 2020, 119, 105955.	3.3	24
853	Fuzzy Gain Scheduled-Sliding Mode Rotational Speed Control of an Oscillating Water Column. IEEE Access, 2020, 8, 45853-45873.	2.6	14
855	Deep Q-Network Based Energy Scheduling in Retail Energy Market. IEEE Access, 2020, 8, 69284-69295.	2.6	7
856	Analytical Approach to Calculate Inductor Current Ripple Cancellation in Two-Phase Interleaved Single-phase Inverter. , 2020, , .		3
857	Decentralized voltage control of wind farm based on gradient projection method. International Journal of Electrical Power and Energy Systems, 2020, 123, 106308.	3.3	14
858	Dynamic Control of a DFIG Wind Power Generation System to Mitigate Unbalanced Grid Voltage. IEEE Access, 2020, 8, 39091-39103.	2.6	29
859	Autonomous reactive power support for smart photovoltaic inverter based on real-time grid-impedance measurements of a weak grid. Electric Power Systems Research, 2020, 182, 106207.	2.1	31
860	Model Predictive Direct Power Control of Doubly Fed Induction Generators Under Balanced and Unbalanced Network Conditions. IEEE Transactions on Industry Applications, 2020, 56, 771-786.	3.3	39
861	Robust Predictive Control of Grid-Side Power Converters for PMSG Wind Turbine Systems with Stability Analysis. , 2020, , .		1
862	Optimizing Disruption Recovery Operations for Wind Farms considering Power Generation Loss and Repair Time Uncertainty. Mathematical Problems in Engineering, 2020, 2020, 1-11.	0.6	0
863	Analysis and Mitigation of Sub-Synchronous Resonance for Doubly Fed Induction Generator under VSG Control. Energies, 2020, 13, 1582.	1.6	10
864	Real-time monitoring of an electronic wind turbine emulator based on the dynamic PMSG model using a graphical interface. Renewable Energy, 2020, 155, 296-308.	4.3	12
865	Omnidirectional Triboelectric Nanogenerator Operated by Weak Wind towards a Self-Powered Anemoscope. Micromachines, 2020, 11, 414.	1.4	28
866	Modeling, analysis, and control of wind-driven induction generators supplying DC loads under various operating conditions. Wind Engineering, 2021, 45, 680-695.	1.1	5
867	Monitoring Bond Wires Fatigue of Multichip IGBT Module Using Time Duration of the Gate Charge. IEEE Transactions on Power Electronics, 2021, 36, 888-897.	5.4	31
868	Monitoring Bond Wire Defects of IGBT Module Using Module Transconductance. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 2201-2211.	3.7	14
869	State of the art perturb and observe MPPT algorithms based wind energy conversion systems: A technology review. International Journal of Electrical Power and Energy Systems, 2021, 126, 106598.	3.3	91
870	An Optimized Decentralized Power Sharing Strategy for Wind Farm De-Loading. IEEE Transactions on Power Systems, 2021, 36, 136-146.	4.6	17

#	Article	IF	Citations
871	GaN-Based 1-MHz Partial Parallel Dual Active Bridge Converter With Integrated Magnetics. IEEE Transactions on Industrial Electronics, 2021, 68, 6729-6738.	5.2	29
872	Virtual Power-Based Control for Operation and Grid Synchronization of Induction Generator. IEEE Systems Journal, 2021, 15, 2168-2175.	2.9	5
873	Performance improvement of DPC in DFIGs during unbalanced grid voltage based on extended power theory. Ain Shams Engineering Journal, 2021, 12, 1775-1786.	3.5	5
874	Unidirectional Three-Phase Voltage-Doubler SEPIC PFC Rectifier. IEEE Transactions on Power Electronics, 2021, 36, 6761-6773.	5.4	17
875	Frequency and Voltage Stability Analysis of Grid-Forming Virtual Synchronous Generator Attached to Weak Grid. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 2662-2671.	3.7	43
876	Harmonic reduction of threeâ€phase power inverter injection current using virtual admittance. International Transactions on Electrical Energy Systems, 2021, 31, e12739.	1.2	3
877	Three-Phase Space Vector Modulated Z-Source Inverter. Lecture Notes in Electrical Engineering, 2021, , 171-185.	0.3	0
878	D-STATCOM for Distribution Network Compensation Linked with Wind Generation. Green Energy and Technology, 2021, , 87-107.	0.4	3
879	Conceptual Study of Vernier Generator and Rectifier Association for Low Power Wind Energy Systems. Energies, 2021, 14, 666.	1.6	5
880	Artificial Intelligence Integrated Fractional Order Control of Doubly Fed Induction Generator-Based Wind Energy System. IEEE Access, 2021, 9, 5734-5748.	2.6	33
881	Model Predictive Control With Triple Phase Shift Modulation for a Dual Active Bridge DC-DC Converter. IEEE Access, 2021, 9, 98603-98614.	2.6	16
882	Enhancement of Wind Energy Penetration Levels in Rural Grid Using ADALINE-LMS Controlled Distribution Static Compensator. IEEE Transactions on Sustainable Energy, 2022, 13, 135-145.	5.9	29
883	Multi-Functional DC Collector for Future All-DC Offshore Wind Power System: Concept, Scheme, and Implement. IEEE Transactions on Industrial Electronics, 2022, 69, 8134-8145.	5.2	17
884	Advanced control design based on sliding modes technique for power extraction maximization in variable speed wind turbine. , 2021, , 15-39.		0
885	Power electronics for hybrid energy systems. , 2021, , 215-234.		1
886	Heterogeneous Control Platform Design for Power Conversion Systems. IEEE Transactions on Industrial Informatics, 2022, 18, 2934-2942.	7.2	4
887	Review of Dynamic and Transient Modeling of Power Electronic Converters for Converter Dominated Power Systems. IEEE Access, 2021, 9, 82094-82117.	2.6	29
888	Evaluation of a Contra-Rotating Flux- Modulated Machine Featured With Dual Flux-Modulation for Wind Power Generation. IEEE Transactions on Industrial Electronics, 2022, 69, 8770-8781.	5.2	12

#	Article	IF	Citations
889	Performance assessment of distinct configurations for squirrel cage induction generator based wind energy conversion systems. AIP Conference Proceedings, 2021, , .	0.3	3
890	A DCM Single-Controlled Three-Phase SEPIC-Type Rectifier. Energies, 2021, 14, 256.	1.6	2
892	Modern electric machines and drives for wind power generation: A review of opportunities and challenges. IET Renewable Power Generation, 2021, 15, 1864-1887.	1.7	46
893	A Robust Nonlinear Controller for PMSG Wind Turbines. Energies, 2021, 14, 954.	1.6	4
894	A Survey based on PLL and its Synchronization Techniques for Interconnected System. , 2021, , .		4
895	Simple Active Capacitor Voltage Balancing Method Without Cost Function Optimization for Seven-Level Full-Bridge Flying-Capacitor-Multicell Inverters. IEEE Transactions on Industry Applications, 2021, 57, 1629-1643.	3.3	12
896	Adapted Operational Management of Wind Turbines for the Provision of Primary Power Reserve. , 2021, , .		0
898	A High Sensitivity Self-Powered Wind Speed Sensor Based on Triboelectric Nanogenerators (TENGs). Sensors, 2021, 21, 2951.	2.1	17
899	Quasi Self-Excited DFIG-Based Wind Energy Conversion System. IEEE Transactions on Industry Applications, 2021, 57, 2816-2824.	3.3	15
900	A mathematical modelâ€based approach for DC multiâ€microgrid performance evaluations considering intermittent distributed energy resources, energy storage, multiple load classes, and system components variations. Energy Science and Engineering, 2021, 9, 1919-1934.	1.9	8
901	Analyzing the Effect of Parasitic Capacitance in a Full-Bridge Class-D Current Source Rectifier on a High Step-Up Pushâ€“Pull Multiresonant Converter. Sustainability, 2021, 13, 5477.	1.6	3
902	Energy Transmission Modes and Output Ripple Voltage of Quadratic Buckâ€“Boost Converters with Switched Inductor Network. IETE Journal of Research, 2023, 69, 3808-3821.	1.8	1
903	Power Hardware-in-the-Loop-Based Performance Analysis of Different Converter Controllers for Fast Active Power Regulation in Low-Inertia Power Systems. Energies, 2021, 14, 3274.	1.6	2
904	A Gray-Box Hierarchical Oscillatory Instability Source Identification Method of Multiple-Inverter-Fed Power Systems. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 3095-3113.	3.7	19
905	Techniques for Ensuring Fault Ride-Through Capability of Grid Connected DFIG-Based Wind Turbine Systems: A Review. Nigerian Journal of Technological Development, 2021, 18, 39-46.	0.3	5
906	Improved Virtual Inertia of PMSG-Based Wind Turbines Based on Multi-Objective Model-Predictive Control. Energies, 2021, 14, 3612.	1.6	8
907	Investigations On The Control Strategy of Rotor Side Converter In Doubly Fed Induction Generator. , 2021, , .		2
908	Selection Guidelines for Wind Energy Technologies. Energies, 2021, 14, 3244.	1.6	65

#	Article	IF	Citations
909	Autoâ€Switching Selfâ€Powered System for Efficient Broadâ€Band Wind Energy Harvesting Based on Dualâ€Rotation Shaft Triboelectric Nanogenerator. Advanced Energy Materials, 2021, 11, 2101194.	10.2	114
910	Evaluation of the Technical Wind Energy Potential of Kisii Region Based on the Weibull and Rayleigh Distribution Models. Journal of Energy, 2021, 2021, 1-17.	1.4	3
911	Active Power Control of Grid-Tied Squirrel-Cage Induction Generators Under Subsynchronous Mode. , 2021, , .		1
912	A Comparison Review on Transmission Mode for Onshore Integration of Offshore Wind Farms: HVDC or HVAC. Electronics (Switzerland), 2021, 10, 1489.	1.8	21
913	Fatigue Analysis Design Approach, Manufacturing and Implementation of a 500 kW Wind Turbine Main Load Frame. Energies, 2021, 14, 3581.	1.6	1
914	Dual Synchronous Rotating Frame Current Control of Brushless Doubly Fed Induction Generator Under Unbalanced Network. IEEE Transactions on Power Electronics, 2021, 36, 6712-6724.	5.4	12
916	Exhaustive Comparison between Linear and Nonlinear Approaches for Grid-Side Control of Wind Energy Conversion Systems. Energies, 2021, 14, 4049.	1.6	1
917	Fault Ride-Through Control Strategy of Doubly-Fed Wind Turbine Under Symmetrical Grid Faults. , 2021, , .		1
919	Analysis of the Stress-Wave Influence Parameters of Silicon MOSFET Under 300V Drain Source Voltage. IEEE Sensors Journal, 2021, 21, 20107-20118.	2.4	6
920	Dual Converter Connecting Open-End Doubly Fed Induction Generator to a DC-Microgrid. IEEE Transactions on Industry Applications, 2021, 57, 5001-5012.	3.3	13
921	A New Asymmetric Cascaded Multilevel Converter Topology With Reduced Voltage Stress and Number of Switches. IEEE Access, 2021, 9, 92276-92287.	2.6	15
922	Fractional Order Control of Power Electronic Converters in Industrial Drives and Renewable Energy Systems: A Review. IEEE Access, 2021, 9, 58982-59009.	2.6	43
923	SU BORULARINA YERLEÅžTÄ°RÄ°LECEK TURBÄ°N Ä°LE ELEKTRÄ°K ÃœRETÄ°MÄ° SAÄžLAYACAK TURBÄ°N TASARIMI VE PROTOTÄ°P ÃœRETÄ°LEREK TESTLERÄ°N YAPILMASI. International Journal of 3d Printing Technologies and Digital Industry, 0, , .	0.3	0
924	A Low Cost Front-End Converter With Maximum Power per Ampere for Rooftop Wind Turbines. IEEE Access, 2021, 9, 131236-131244.	2.6	4
925	Bond Graph Modeling and Simulation of Electrical Machines. , 2011, , 269-321.		5
926	Control Methods Applied in Renewable Energy Systems. Green Energy and Technology, 2014, , 205-246.	0.4	11
927	Advanced Control of Photovoltaic and Wind Turbines Power Systems. Studies in Computational Intelligence, 2014, , 41-89.	0.7	11
929	A Module Harvesting Wind and Solar Energy for Wireless Sensor Node. Communications in Computer and Information Science, 2013, , 217-224.	0.4	3

#	Article	IF	Citations
930	Bipolar DC Micro-Grid Based Wind Energy Systems. Springer Proceedings in Energy, 2021, , 1403-1413.	0.2	4
931	Using Virtual Synchronous Generator Control Based Energy Storage to Enhance the Stability of Sending Terminal in LCC-HVDC System. , 2020, , .		5
932	On the Application of Cooperative Communications in Renewable Energy Sources for Maximizing the Reliability of Power Distribution Networks. Journal of Green Engineering (discontinued), 2013, 3, 403-420.	0.7	3
933	Design and Modelling of Induction Generator Wind Power Systems by Using MATLAB/SIMULINK. International Journal of Advanced Research in Electrical Electronics and Instrumentation Engineering, 2014, 03, 11472-11478.	0.0	2
934	A Sliding Mode approach into Constant Switching Frequency Direct Power Control of a Grid Connected Voltage Source Converter. International Journal on Electrical Engineering and Informatics, 2015, 7, 42-58.	0.3	4
935	Overall Description of Wind Power. IngenierÃa Y Ciencia, 2014, 10, 99-126.	0.3	7
936	Hybrid Power Generation as an Environmental Friendly Energy Supply Solution for Remote Area in Indonesia. International Journal of Environmental Science and Development, 2017, 8, 159-163.	0.2	1
937	An Improved MRAS Based Sensorless Vector Control Method for Wind Power Generator. Journal of Applied Research and Technology, 2012, 10, .	0.6	7
938	Comparative Study of Active Disturbance Rejection Control with RST Control for Variable Wind Speed Turbine Based on Doubly Fed Induction Generator Connected to the Grid. International Journal of Intelligent Engineering and Systems, 2020, 13, 248-258.	0.8	6
939	Modelling and Dynamic Analysis of Gearless Variable-Speed Permanent Magnet Synchronous Generator Based Wind Energy Conversion System. Renewable Energy and Power Quality Journal, 0, , 1597-1602.	0.2	3
940	Nonlinear Current-Mode Control of SCIG Wind Turbines. Energies, 2021, 14, 55.	1.6	3
941	HYBRID RENEWABLE ENERGY SYSTEMS FOR ISOLATED FARMS. A REVIEW. INMATEH - Agricultural Engineering, 2019, 59, 77-92.	0.1	5
942	Speed control of synchronous machine by changing duty cycle of DC/DC buck converter. AIMS Energy, 2015, 3, 728-739.	1.1	1
943	Analysis of Renewable Energy Power Systems. Advances in Computational Intelligence and Robotics Book Series, 2015, , 651-686.	0.4	15
944	Maximum Power Tracking System Based on Power Electronic Topology for Wind Energy Conversion System Applications. Engineering, Technology & Applied Science Research, 2018, 8, 3392-3397.	0.8	7
945	Grid-forming control strategies for black start by offshore wind power plants. Wind Energy Science, 2020, 5, 1297-1313.	1.2	19
946	Grid-tied Power Converter for Battery Energy Storage Composed of 2-stage DC-DC Converter. Journal of Electrical Engineering and Technology, 2013, 8, 1400-1408.	1.2	2
947	Fault Response of a DFIG-based Offshore Wind Power Plant Taking into Account the Wake Effect. Journal of Electrical Engineering and Technology, 2014, 9, 827-834.	1.2	12

#	Article	IF	Citations
948	A Review of Power Electronics Based Microgrids. Journal of Power Electronics, 2012, 12, 181-192.	0.9	135
949	Simplified SVPWM that Integrates Overmodulation and Neutral Point Potential Control. Journal of Power Electronics, 2014, 14, 926-936.	0.9	6
950	Evaluation and Design Tools for the Reliability of Wind Power Converter System. Journal of Power Electronics, 2015, 15, 1149-1157.	0.9	30
951	Power Management of Open Winding PM Synchronous Generator for Unbalanced Voltage Conditions. Journal of Power Electronics, 2016, 16, 2192-2201.	0.9	2
952	A New Synchronization Method of Double Fed Induction Generator Wind Turbines to the Grid. Journal of Energy Research and Reviews, 0, , 1-13.	0.0	1
953	Grid Interfacing of Multi-megawatt Photovoltaic System under Normal and Partial Shading Conditions. , 2021, , .		0
954	Study of Soft-Starter based Induction Generator for Wind Energy Conversion System. , 2021, , .		1
955	Performance assessment of artificial raindrop <scp>MPPT</scp> with high gain resonant switchedâ€capacitor converterâ€based wind energy conversion system. International Transactions on Electrical Energy Systems, 2021, 31, e13145.	1.2	0
956	The effect of the salt precursor on the particle morphology and thermal properties of magnesium hydroxide for thermochemical energy storage. Journal of Energy Storage, 2021, 44, 103335.	3.9	4
957	The Time Variant Power Signal Processing of Wind Generator using Buneman Frequency Estimator Algorithm. Journal of the Korean Institute of Illuminating and Electrical Installation Engineers, 2010, 24, 138-146.	0.0	0
958	FamÃlia de retificadores multipulsos com topologias diferenciais de transformadores. Controle and Automacao, 2011, 22, 23-38.	0.2	1
959	Implementation of Pmsg Based Wind Turbine Generator Using With and Without Quasi Z-Source Inverter for Application of Grid System. Indian Journal of Applied Research, 2011, 4, 171-173.	0.0	0
960	Potential Applications and Impact of Most-Recent Silicon Carbide Power Electronics in Wind Turbine Systems. Green Energy and Technology, 2012, , 81-109.	0.4	0
961	Pressureless Sintering Progression of a Silver Nanoparticle Attach Material Via Micrographic Analysis. Additional Conferences (Device Packaging HiTEC HiTEN & CICMT), 2012, 2012, 000135-000142.	0.2	0
962	Connection of Off-Shore Wind Farms Using Diode Based HVDC Links. Green Energy and Technology, 2012, , 431-464.	0.4	5
963	Validation of power factor regulation of a wind turbine. Renewable Energy and Power Quality Journal, 0, , 1763-1767.	0.2	0
964	Grid-tied Power Conditioning System for Battery Energy Storage Composed of 2-stage DC-DC converter. Transactions of the Korean Institute of Electrical Engineers, 2012, 61, 1848-1856.	0.1	1
965	Improved Fuzzy Control Strategy for Power Quality in Distributed Generationâ€™s Single Phase Inverters. IOSR Journal of Electrical and Electronics Engineering, 2013, 6, 38-49.	0.0	0

#	Article	IF	Citations
967	Low Voltage Ride Through Characterization of Wind Energy Conversion Systems. Renewable Energy and Power Quality Journal, 0, , 1178-1183.	0.2	1
968	A Study on the Integrated Simulation and Condition Monitoring Scheme for a PMSG-Based Variable Speed Grid-Connected Wind Turbine System under Fault Conditions. Journal of the Korean Institute of Illuminating and Electrical Installation Engineers, 2013, 27, 65-78.	0.0	0
969	A Novel Hybrid Anti-islanding Method to Improve Reliability of Utility Interactive Inverter for a PMSG-based Wind Power Generation System. Journal of the Korean Institute of Illuminating and Electrical Installation Engineers, 2013, 27, 27-36.	0.0	1
970	Behavior of HAWT with Differential Planetary Gearbox. Journal of Power and Energy Engineering, 2014, 02, 193-197.	0.3	0
971	Wind Power Plants and FACTS Devicesâ€™ Influence on the Performance of Distance Relays. Green Energy and Technology, 2014, , 331-367.	0.4	1
972	Adaptive Controller for Drive System PMSG in Wind Turbine. Journal of Engineering Science and Technology Review, 2014, 7, 125-132.	0.2	0
973	A Hybrid Anti-islanding Detection Scheme for Utility Interactive Inverter with Enhanced Harmonic Extraction Capability. The Transactions of the Korean Institute of Power Electronics, 2014, 19, 312-319.	0.1	0
974	Modeling & Operating Algorithm of Islanding Microgrid with Wind Turbine, Diesel Generator and BESS. Journal of the Korea Academia-Industrial Cooperation Society, 2014, 15, 5893-5898.	0.0	4
975	A Low Harmonic Drive System using ZSI for a Variable Speed Wind Turbine. SSRG International Journal of Engineering Trends and Technology, 2014, 17, 315-321.	0.3	0
976	A Novel Topology for Enhancing the Low-Voltage Ride-Through Capability for Grid Connected Wind Turbine Generators. , 2015, , 865-881.		1
977	A Current Control Scheme of a Grid-connected Inverter to Enhance Power Quality in Distributed Generation. , 0, , .		1
980	Modeling & Operating Algorithm of Islanding Microgrid with PMSG Wind Turbine and Diesel Generator. Journal of the Korea Academia-Industrial Cooperation Society, 2015, 16, 6419-6424.	0.0	0
981	Dual Current Control Scheme of a Grid-connected Inverter for Power Quality Improvement in Distributed Generation Systems. Journal of the Korean Institute of Illuminating and Electrical Installation Engineers, 2015, 29, 33-41.	0.0	0
982	FRT Method for Matrix Converter to Ensure Compatibility between Generator Torque Control and Grid Reactive Current Control. IEEJ Transactions on Industry Applications, 2016, 136, 71-78.	0.1	1
983	FRT Control Method for Multi-modular Matrix Converter using an External Braking Circuit. IEEJ Transactions on Industry Applications, 2016, 136, 308-309.	0.1	0
984	Power Quality Improvement in Modified Solid State Transformer System Using Statcom. International Journal of Engineering and Computer Science, 0, , .	0.2	1
985	DESIGN AND IMPLEMENTATION OF PREDICTIVE CONTROLLERS ON THE RECTIFIER AND QUASI IMPEDANCESOURCEÂINVERTER IN A WIND ENERGY CONVERSION SYSTEM BASED ON PERMANENT MAGNET SYNCHRONOUS GENERATOR. International Journal on Smart Sensing and Intelligent Systems, 2017, 10, 451-490.	0.4	2
986	Enhancing the Energy/Power Efficiency of a DC Distribution Grid for Residential Buildings via Modular Architecture of DC/DC Solid State Transformers. Advances in Science, Technology and Engineering Systems, 2018, 3, 288-297.	0.4	1

#	Article	IF	Citations
987	Operation in distributed power generation scheme with transition of control between stand-alone and grid connected modes. Modelling, Measurement and Control A: General Physics, Electronics, Electrical Engineering, 2018, 91, 48-53.	0.4	0
989	Candid inquest on modeling methods of doubly fed induction generator, and corroboration through simulation study. Modelling, Measurement and Control A: General Physics, Electronics, Electrical Engineering, 2018, 91, 222-232.	0.4	1
990	A Review on Wind Turbines by PMSG Generator For Power Generation. International Journal of Electrical and Electronics Engineering, 2019, 6, 1-6.	0.1	0
991	Power Analysis of 2 MW Brushless Doubly-Fed Induction Generator-Based Wind Energy Generation System. , 2019, , .		0
993	Active Reconfigurable Operation with Long Short-Term Memory Prediction for Smart City Microgrids. , 2019, , .		0
994	Thermal Analysis of the Power Distribution System As Part of an Underwater Compressed Air Energy Storage Station. Lecture Notes in Electrical Engineering, 2020, , 203-217.	0.3	0
996	PLL parameters tuning guidelines to increase stability margins in multiple threeâ€phase converters connected to weak grids. IET Renewable Power Generation, 2020, 14, 2232-2244.	1.7	4
997	P-Q Capability Analysis of Inverter Based Resources with Typical Grid Connected Filters. , 2020, , .		5
998	A Decentralized Power Sharing Strategy for Wind Farm De-Loading. , 2020, , .		1
999	Voltage Control of Multiphase Cage Induction Generators at a Speed Varying over a Wide Range. Energies, 2021, 14, 7080.	1.6	3
1000	A Review of Maximum Power Point Tracking Algorithms for Wind Energy Conversion Systems. Journal of Marine Science and Engineering, 2021, 9, 1187.	1.2	51
1001	Generator Topologies for Horizontal Axis Tidal Turbine. Lecture Notes in Electrical Engineering, 2020, , 447-459.	0.3	2
1002	Resilience of Grid-Connected Wind Farm Using a Flexible Asynchronous AC Link. , 2020, , .		0
1003	Implementation of Wind Energy System Using Interleaved Boost Converter and Static Synchronous Compensator. Journal of Computational and Theoretical Nanoscience, 2020, 17, 5307-5314.	0.4	0
1004	A Novel five phase current reconstruction technique fed by dual inverter. , 2020, , .		1
1005	Improved Traditional Demagnetization Control of DFIG Under Balanced Grid Faults. , 2020, , .		1
1006	CFD-Based Wind Assessment for Suburban Buildings. The Case Study of Aarhus University, Herning Campus. Frontiers in Energy Research, 2020, 8, .	1.2	2
1007	Improvement of small scale turbine performance: in West Aceh region using a clark-y type of turbine blades. IOP Conference Series: Materials Science and Engineering, 2020, 909, 012021.	0.3	0

#	Article	IF	Citations
1008	New analytical assessment for fast and complete pre-fault restoration of grid-connected FSWTs with fuzzy-logic pitch-angle controller. International Journal of Electrical Power and Energy Systems, 2022, 136, 107745.	3.3	9
1009	Application of Impedance Source Inverters. , 2020, , 255-290.		0
1010	State-Space Model of qZSI based PMSG-WPGSs for Transient Dynamic Studies. , 2021, , .		1
1011	Control and Operation of Brushless Doubly-Fed Induction Generator under Unbalanced Network. , 2020, , .		0
1012	Design and Implementation of High Gain SEPIC Converter. , 2021, , .		2
1013	Review of DC Offshore Wind Farm Topologies. , 2021, , .		2
1014	A New Type of Three-phase Asymmetric LCL Power filter for Grid-Tied Voltage Source Inverter. , 2021, , .		0
1015	Power conditioning using DSTATCOM in a single-phase SEIG-based isolated system. Electrical Engineering, 2022, 104, 111-127.	1.2	4
1016	Dynamic Equivalent Modeling of Wind Farm Based on Dominant Variable Hierarchical Clustering Algorithm. Mathematical Problems in Engineering, 2021, 2021, 1-10.	0.6	2
1017	Defect identification of wind turbine blade based on multiâ€feature fusion residual network and transfer learning. Energy Science and Engineering, 2022, 10, 219-229.	1.9	8
1018	Topologies and Control Schemes of Grid-Tied Power Converters. Power Systems, 2022, , 9-43.	0.3	0
1019	Attitudes of Communities in Rural Areas towards the Development of Wind Energy. Energies, 2021, 14, 8052.	1.6	6
1020	DynamicP-QCapability and Abnormal Operation Analysis of a Wind Turbine With Doubly Fed Induction Generator. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 4854-4864.	3.7	3
1021	Analysis of Influence Parameters of Stress Wave at the Turn-Off Moment in IGBT Device Based on Differential AE Sensor. IEEE Sensors Journal, 2022, 22, 2259-2270.	2.4	3
1022	A Proposal to Control Active and Reactive Power in Distributed Generation Systems Using Small Wind Turbines. IEEE Latin America Transactions, 2020, 18, 1699-1706.	1.2	11
1023	System Level Optimization of 5 MW Wind Converter using 3L-NPC Topology in Medium Voltage with 1.7 kV IGBT. , 2020, , .		0
1024	Reduced-Size Converter in DFIG-Based Wind Energy Conversion System. , 2020, , .		3
1025	Cascaded Three-Phase H-Bridge Converter Applied as Series Active Compensator for DFIG-Based Wind Energy Conversion Systems. , 2020, , .		0

#	Article	IF	Citations
1026	A Novel Fault Detection of Igbt Open â€“ Circuit Failure In Five-Phase Open-End Winding PMSM Drive System. , 2020, , .		1
1027	A Decentralized Frequency Regulation Scheme in AC Microgrids. , 2020, , .		0
1028	Impacts of Equivalent Dynamic Grid Impedance on Inverter Based Resources Plant. , 2021, , .		0
1029	Optimizing the input vectors of applied artificial neural network models for wind power production forecasting. Wind Engineering, 0, , 0309524X2110463.	1.1	0
1030	Small-Signal Stability Analysis of a Grid-Connected Wind-Turbine Generator Based on Dynamic-Slip Induction Generator. , 2021, , .		0
1031	Vienna Rectifiers for WECS Applications With Open-End Winding PMSM. IEEE Transactions on Industry Applications, 2022, 58, 2268-2279.	3.3	8
1032	FEA Based Transformer Loss Analysis for Dual Active Bridge DCâ€“DC Converter Using Triple Phase Shift Modulation. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 4347-4360.	3.7	4
1033	The current opportunities and challenges for offshore wind in the United States. Electricity Journal, 2022, , 107061.	1.3	1
1034	Maximizing Energy Extraction from Direct Grid Coupled PMSG For Wind Energy Conversion Systems. IEEE Transactions on Industry Applications, 2022, 58, 3888-3900.	3.3	9
1035	Performance Improvement of Weak Grid-Connected Wind Energy System Using FLSRF-Controlled DSTATCOM. IEEE Transactions on Industrial Electronics, 2023, 70, 1565-1575.	5.2	12
1037	Power Electronics for Modern Sustainable Power Systems: Distributed Generation, Microgrids and Smart Gridsâ€”A Review. Sustainability, 2022, 14, 3597.	1.6	31
1038	Coordinated control by ADRC strategy for a wind farm based on SCIG considering low voltage ride-through capability. Protection and Control of Modern Power Systems, 2022, 7, .	4.3	7
1039	Enhancement of wind energy harvesting scheme over wide wind velocity using induction generator and variable speed drive. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers,Series A/Chung-kuo Kung Ch'eng Hsuch K'an, 0, , 1-11.	0.6	0
1040	Improved Sliding Mode Control for Low-voltage Ride Through of Hybrid Drive Wind Turbine. , 2021, , .		0
1041	Maximum Power Point Tracking Controller Technique Using Permanent Magnet Synchronous Generator. , 2021, , .		1
1043	Enhanced Inertial Response Capability of a Variable Wind Energy Conversion System. Energies, 2021, 14, 8132.	1.6	2
1044	Performance Analysis of Voltage-Multiplier based DC-DC Converters in Wind Power Conversion System. , 2021, , .		0
1045	Threeâ€stage robust voltage/var optimal control of wind farms at multiple time scales. IET Renewable Power Generation, 2022, 16, 594-606.	1.7	1

#	Article	IF	Citations
1046	Cascaded Multilevel Rectifiers for Open-End Winding PMSM. IEEE Transactions on Industry Applications, 2022, 58, 4873-4888.	3.3	3
1047	Retrospect and Prospect of Wind Power Participating in Power System Frequency Regulation. , 2022, , .		2
1051	Incremental Current based Fault Detection and Classification in LCC-HVDC Transmission System. , 2022, , .		1
1052	Review on Backup Storage System in Wind Energy Conversion System. , 2022, , .		8
1053	Joint coordination of optimal power management and energy storage system sizing for a full-scale marine current turbine considering microgrid integration constraint. Journal of Energy Storage, 2022, 52, 104792.	3.9	3
1054	Wind turbine drive train systems. , 0, , 208-246.		0
1055	Calculation Method of Foundation-Subgrade Dynamic Interaction for Large Wind Turbine. Journal of Physics: Conference Series, 2022, 2271, 012024.	0.3	0
1056	Half-Controlled Converters Connecting Open-End Doubly-Fed Induction Generator to a DC-Microgrid. IEEE Transactions on Industry Applications, 2022, , 1-11.	3.3	1
1057	A Review on Switched Reluctance Generators in Wind Power Applications: Fundamentals, Control and Future Trends. IEEE Access, 2022, 10, 69412-69427.	2.6	14
1058	Power Curtailment Analysis of DC Seriesâ€"Parallel Offshore Wind Farms. Wind, 2022, 2, 466-478.	0.6	0
1059	Power Quality Issue, Solution and Analysis: DFIG. Recent Advances in Electrical and Electronic Engineering, 2022, 15, .	0.2	0
1060	Toward effective irregular wind energy harvesting: Self-adaptive mechanical design strategy of triboelectric-electromagnetic hybrid wind energy harvester for wireless environmental monitoring and green hydrogen production. Nano Energy, 2022, 102, 107638.	8.2	26
1061	Advances in Fault Condition Monitoring for Solar Photovoltaic and Wind Turbine Energy Generation: A Review. Energies, 2022, 15, 5404.	1.6	14
1062	Short-Circuit Current Mechanism in Three-Core Submarine Cable for Offshore Wind Power Transmission System Under Grid Faults. , 2022, , .		0
1063	Fault Diagnosis in Wind Energy Management System using Extreme Learning Machine: A Systematic Review. Journal of Physics: Conference Series, 2022, 2319, 012014.	0.3	0
1064	Integer and Fractional-Order Sliding Mode Control Schemes in Wind Energy Conversion Systems: Comprehensive Review, Comparison, and Technical Insight. Fractal and Fractional, 2022, 6, 447.	1.6	7
1065	Dynamic modeling of power network-integrated wind turbine. Wind Engineering, 0, , 0309524X2211084.	1.1	0
1067	Virtual Dynamic Grid Impedance and Its Impacts on Harmonics and Stability of Inverter Based Resources Plant. IEEE Transactions on Power Electronics, 2022, 37, 15469-15481.	5.4	3

#	Article	IF	Citations
1068	Grid-Connected and Seamless Transition Modes for Microgrids: An Overview of Control Methods, Operation Elements, and General Requirements. IEEE Access, 2022, 10, 97802-97834.	2.6	16
1069	A Permanent Magnet Brushless Doubly Fed Electric Machine for Variable-Speed Constant-Frequency Wind Turbines. IEEE Transactions on Industrial Electronics, 2023, 70, 6663-6674.	5.2	1
1070	Monitoring Chip Branch Failure in Multichip IGBT Modules Based on Gate Charge. IEEE Transactions on Industrial Electronics, 2023, 70, 5214-5223.	5.2	3
1071	Modeling, control, steady state and transient analysis of doubly fed induction generator. AIP Conference Proceedings, 2022, , .	0.3	0
1072	Non-intrusive modeling for integrated energy system based on two-stage GAN. , 2022, 1, 257-266.		0
1073	Wind turbine blade icing detection using a novel bidirectional gated recurrent unit with temporal pattern attention and improved coot optimization algorithm. Measurement Science and Technology, 2023, 34, 014004.	1.4	2
1074	An overview of aerodynamic performance analysis of vertical axis wind turbines. Energy and Environment, 2023, 34, 2815-2857.	2.7	3
1075	Electrical Generators for Large Wind Turbine: Trends and Challenges. Energies, 2022, 15, 6700.	1.6	17
1076	Droop based PLL Control for WES for application of DC Microgrid. , 2022, , .		0
1077	Sensorless Vector Control for Grid Synchronization of Doubly-Fed Induction Generators. , 2022, , .		2
1078	Overview of monitoring methods of pressâ€pack insulated gate bipolar transistor modules under different package failure modes. IET Power Electronics, 2023, 16, 683-698.	1.5	1
1079	Maximum power point tracking algorithms for wind power generation system: Review, comparison and analysis. Energy Science and Engineering, 2023, 11, 430-444.	1.9	12
1080	Primalâ€“dual interior-point algorithm for electricity cost minimization in a prosumer-based smart grid environment: A convex optimization approach. Energy Reports, 2022, 8, 681-695.	2.5	9
1081	Power Quality Improvement in Rural Grid Using Adaptive Control Algorithm to Enhance Wind Energy Penetration Levels. IEEE Transactions on Smart Grid, 2023, 14, 2075-2084.	6.2	11
1082	Enabling 100% Renewable Power Systems Through Power Electronic Grid-Forming Converter and Control: System Integration for Security, Stability, and Application to Europe. Proceedings of the IEEE, 2023, 111, 891-915.	16.4	7
1083	Wind Turbine Blade Icing Diagnosis Using Convolutional LSTM-GRU With Improved African Vultures Optimization. , 2022, 1, 1-9.		4
1084	A Power Cable Reference Frame dqn Model for Fundamental Frequency Analysis. IEEE Access, 2022, 10, 121021-121031.	2.6	1
1085	Artificial Intelligence Integrated Control to PMSG Built Wind Energy Conversion Scheme. , 2022, , .		0

#	Article	IF	Citations
1086	Collector-Emitter Voltage Based Health Monitoring of Bond Wire in IGBT at Low Gate Voltage. , 2022, , .		0
1087	Quantifying the Value of Transient Voltage Sources. Physical Review Applied, 2022, 18, .	1.5	0
1088	Assessment of a High-Order Stationary Frame Controller for Two-Level and Three-Level NPC Grid-Connected Inverters. Energies, 2022, 15, 9313.	1.6	0
1089	A Review on Power Electronic Topologies and Control for Wave Energy Converters. Energies, 2022, 15, 9174.	1.6	4
1090	A Comprehensive Overview of Power Converter Applied in High-Power Wind Turbine: Key Challenges and Potential Solutions. IEEE Transactions on Power Electronics, 2023, 38, 6169-6195.	5.4	27
1091	Efficiency, Cost, and Volume Comparison of SiC-Based and IGBT-Based Full-Scale Converter in PMSG Wind Turbine. Electronics (Switzerland), 2023, 12, 385.	1.8	5
1092	A Review of Power Co-Generation Technologies from Hybrid Offshore Wind and Wave Energy. Energies, 2023, 16, 550.	1.6	4
1093	Assessment of Flicker Emission in a Grid Connected Wind Farms. Journal of Electrical Engineering and Technology, 2023, 18, 2847-2857.	1.2	0
1094	Novel PID-SMC Controller for CÃ»k Coverter in Permanent Magnet Synchronous Wind Generator with MPPT Control. , 2022, , .		0
1095	Review of the Modern Maximum Power Tracking Algorithms for Permanent Magnet Synchronous Generator of Wind Power Conversion Systems. Energies, 2023, 16, 402.	1.6	9
1096	Development of Fault Ride Through (FRT) Criteria from System Operator Perspective with Large-scale Wind Integration. , 2022, , .		0
1097	Infrastructures for Wind Energy-Based Power Generation Systemâ€"Modelling and Control. Studies in Infrastructure and Control, 2023, , 1-29.	0.4	0
1098	Ultra-Sensitive All-Optical Anemometer Based on Dispersion Turning Point. , 2022, , .		0
1099	Switching Analysis in a Back-to-Back converter of the Type-4 Wind Turbine. , 2022, , .		1
1100	Dynamic Analysis of Current Loops in a Wind Turbine based on Doubly fed Induction Generator. , 2022, , .		0
1101	Fuzzy- PI Controller design for maximum power tracking of wind turbine. , 2022, , .		0
1102	Wind Energy Conversions, Controls, and Applications: A Review for Sustainable Technologies and Directions. Sustainability, 2023, 15, 3986.	1.6	19
1103	Power Electronic Converters for Wind Power Generation. , 2023, , .		6

#	Article	IF	Citations
1104	Distribution Network Reconfiguration Based on Hybrid Golden Flower Algorithm for Smart Cities Evolution. Energies, 2023, 16, 2454.	1.6	10
1105	Characteristic Analysis of the Stress Wave of Silicon MOSFET under Gate-Source Overvoltage Failure. , 2022, , .		0
1106	Design and analysis of a dual input quasi SB-SC cell high gain converter. International Journal of Electronics, 0, , 1-18.	0.9	0
1107	A Maximum Power Point Tracking Technique for a Wind Power System Based on the Trapezoidal Rule. Energies, 2023, 16, 2799.	1.6	4
1108	Statistical Analysis of Radial Velocity and Spectrum Width for Wind Turbines Radar Echo. , 2022, , .		0
1109	The energy storage mathematical models for simulation and comprehensive analysis of power system dynamics: A review. Part i. International Journal of Hydrogen Energy, 2023, 48, 22141-22160.	3.8	4
1110	Predictive discreteâ€time sliding mode based direct power control for gridâ€connected energy conversion systems. IET Control Theory and Applications, 2023, 17, 1354-1366.	1.2	1
1111	A comprehensive review of wind power based power system frequency regulation. Frontiers in Energy, 0, , .	1.2	0
1114	Research on Cooperative Fault Ride-through Strategy of Offshore Wind Power Grid-Connected System via VSC-HVDC System. , 2023, , .		0
1115	Power Electronic Generator Systems for Wind Turbines. Green Energy and Technology, 2023, , 319-394.	0.4	0
1121	Calculation and Emission Reduction Effect Evaluation Model of Wind Power Lifetime Carbon Emission under Carbon Neutralization Target. , 2022, , .		1
1122	Wind turbine technologies. , 2023, , 89-98.		0
1125	Discrete-Time Sliding Mode Control for Electrical Drives and Power Converters. Women in Engineering and Science, 2023, , 443-466.	0.2	0
1127	Control of Grid-connected Inverters Under Unbalanced Voltage Sag. , 2023, , .		0
1132	Utilizing Electroluminescence of Silicon IGBTs for Junction Temperature Sensing. , 2023, , .		0
1133	Thermal Stress Emulation of Power Devices Subject to DFIG Wind Power Converter. , 2023, , .		0
1139	Four blades traditional wind pump of Demak for electric generation and battery charging. AIP Conference Proceedings, 2023, , .	0.3	0
1140	Optimization of Cylindrical Blades for Wind Turbine Based on Magnus Effect. , 2023, , .		0

#	Article	IF	Citations
1141	Wind integration into bulk power systems. , 2024, , 35-53.		0
1143	Variable Speed Drives forÂHousehold Wind Energy Systems: Model Predictive Control ofÂtheÂSquirrel Cage Induction Generator withÂtheÂNine-Switch Converter. Green Energy and Technology, 2024, , 247-275.	0.4	0
1147	A Deep Learning based Sustainable Energy Scheduling System. , 2023, , .		0
1148	Robust Predictive Current Control of CBDFG Based on Ultra-Local Model. , 2023, , .		0
1150	Multiple-Vector-Based Model Predictive Direct Power Control with Controllable Switching Frequency for Doubly Fed Induction Generators. , 2023, , .		0
1151	DFIG-VSG Based on Predictive Back-EMF Control for Improved Voltage Source Characteristic and Overcurrent Suppression. , 2023, , .		0
1152	Disturbance Preview Approach Based on Enhanced Reduced-Order GPI Observer for DC-DC Buck Converters. , 2023, , .		0
1153	A New Control Method of SMC for Three-Phase Grid-Connected Inverter with A-LCL Type Filter. , 2023, , .		0
1157	Performance Analysis of Quadratic Buck Boost Converters: A Comparative Study. , 2023, , .		0
1159	Analysis of Neutral Point Balancing Scheme for Back-to-Back Converter in PMSG-Based Wind Energy Conversion Systems. , 2023, , .		0
1160	Interleaved Three-Phase Rectifier Dual Input Single Stage In Discontinuous Conduction Mode With Maximum Power Tracking Method For Application In Small Wind Generators. , 2023, , .		0
1161	Optimization of Power Generation Using the Tip Speed Ratio Method in a WECS Equipped with PMSG. , 2023, , .		0
1162	PLL-Based Resonance of a Type-4 Wind Generator in a Series-Compensated Transmission Line. , 2023, , .		0
1168	Predicting Wind Turbine Power Output Based on XGBoost. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2024, , 315-330.	0.2	0