Overview of Control and Grid Synchronization for Distr

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Citation Report

#	Article	IF	Citations
1	A Single-Phase DG Generation Unit with Shunt Active Power Filter Capability by Adaptive Neural Filtering. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	1
2	Influence analysis of the effects of an inductive-resistive weak grid over L and LCL filter current hysteresis controllers. , 2007, , .		44
3	Phase-locked loop with adaptive signal cancellation for three-phase network side voltage source inverter. , 2007, , .		4
4	Z-Source Inverter Based Power Quality Compensator with Enhanced Ride-Through Capability. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2007, , .	0.0	1
5	VOLTAGE REGULATION IN NETWORKED ELECTRICAL POWER SYSTEMS FOR DISTRIBUTED GENERATION: A CONSTRAINED SUPERVISORY APPROACH. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 1155-1160.	0.4	5
6	Predictive Control Strategy for DC/AC Converters Based on Direct Power Control. IEEE Transactions on Industrial Electronics, 2007, 54, 1261-1271.	5.2	266
7	Analysis and Comparison of Phase Locked Loop Techniques for Grid Utility Applications. , 2007, , .		85
8	PLL Grid Synchronization of the Standalone DFIG based Wind Turbine or Rotary UPS. , 2007, , .		12
9	Locating Phase-to-Ground Short-Circuit Faults on Radial Distribution Lines. IEEE Industrial Electronics Magazine, 2007, 54, 1581-1590.	2.3	33
10	Grid Impedance Estimation via Excitation of LCL-Filter Resonance. IEEE Transactions on Industry Applications, 2007, 43, 1401-1407.	3.3	173
11	Modeling of Three-Phase Dynamic Systems Using Complex Transfer Functions and Transfer Matrices. IEEE Transactions on Industrial Electronics, 2007, 54, 2239-2248.	5.2	370
12	Flexible Active Power Control of Distributed Power Generation Systems During Grid Faults. IEEE Transactions on Industrial Electronics, 2007, 54, 2583-2592.	5.2	605
13	New Optimized PWM VSC Control Structures and Strategies Under Unbalanced Voltage Transients. IEEE Transactions on Industrial Electronics, 2007, 54, 2902-2914.	5.2	128
14	Single-phase grid-connected photovoltaic systems with power quality conditioner functionality. , 2007, , .		14
15	Modeling Photovoltaic DC primary sources as grid connected inverter supplies considering non linear effects. , 2007, , .		5
16	Modeling and Coordinate Control of Circulating Currents in Parallel Three-Phase Boost Rectifiers. IEEE Transactions on Industrial Electronics, 2007, 54, 825-838.	5.2	173
17	The Application of the Cascaded Multilevel Converters in Grid Connected Photovoltaic Systems. , 2007, , .		48
18	Z-Source Inverter Based Power Quality Compensator with Enhanced Ride-Through Capability. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2007, , .	0.0	1

#	Article	IF	Citations
19	A Novel Vdc Voltage Monitoring and Control Method for Three-Phase Grid-Connected Inverter. , 2007, , .		3
20	A photovoltaic grid connected inverter with current source characteristics and maximum power tracking. , 2007, , .		0
21	Predictive Direct Power Control of MV Grid-connected Three-level NPC Converters. , 2007, , .		8
22	Photovoltaics literature survey (No. 51). Progress in Photovoltaics: Research and Applications, 2007, 15, 87-91.	4.4	1
23	A Comparative Analysis of Real-Time Algorithms for Power Signal Decomposition in Multiple Synchronous Reference Frames. IEEE Transactions on Power Electronics, 2007, 22, 1280-1289.	5.4	99
24	Autonomous power system for island or gridâ€connected wind turbines in distributed generation. European Transactions on Electrical Power, 2008, 18, 658-673.	1.0	12
25	A Single-Phase DG Generation Unit With Shunt Active Power Filter Capability by Adaptive Neural Filtering. IEEE Transactions on Industrial Electronics, 2008, 55, 2093-2110.	5.2	136
26	A Simple Voltage Sensorless Active Damping Scheme for Three-Phase PWM Converters With an LCL Filter. IEEE Transactions on Industrial Electronics, 2008, 55, 1876-1880.	5.2	252
27	An Integrated Hybrid Power Supply for Distributed Generation Applications Fed by Nonconventional Energy Sources. IEEE Transactions on Energy Conversion, 2008, 23, 622-631.	3.7	195
28	Adaptive Discrete-Time Grid-Voltage Sensorless Interfacing Scheme for Grid-Connected DG-Inverters Based on Neural-Network Identification and Deadbeat Current Regulation. IEEE Transactions on Power Electronics, 2008, 23, 308-321.	5.4	75
29	A Simplified Control Method for the Grid-Connected Inverter With the Function of Islanding Detection. IEEE Transactions on Power Electronics, 2008, 23, 2775-2783.	5.4	40
30	Power flow control and islanding detection of a local generation system with induction generator. , 2008, , .		2
31	Single-phase inverter with power quality features for distributed generation systems. , 2008, , .		9
32	Power electronics control of wind energy in distributed power systems. , 2008, , .		25
33	Common mode voltage in case of transformerless PV inverters connected to the grid. , 2008, , .		96
34	Parallel operation of multi-mode Voltage Source Inverter modules with equal load sharing in single phase AC systems. , 2008, , .		2
35	Multifunctional Grid-Connected Multimodule Power Converters Capable of Operating in Single-Pulse and PWM Switching Modes. IEEE Transactions on Power Electronics, 2008, 23, 1228-1238.	5.4	7
36	A robust power decoupler and maximum power point tracker topology for a grid-connected photovoltaic system. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	21

#	Article	IF	Citations
37	Multi-functional power converter building block to facilitate the connection of micro-grid. , 2008, , .		3
38	Dynamic Modeling and Control of a Grid-Connected Hybrid Generation System With Versatile Power Transfer. IEEE Transactions on Industrial Electronics, 2008, 55, 1677-1688.	5.2	343
39	Adaptive Decentralized Droop Controller to Preserve Power Sharing Stability of Paralleled Inverters in Distributed Generation Microgrids. IEEE Transactions on Power Electronics, 2008, 23, 2806-2816.	5.4	1,088
40	DFIG-Based Power Generation System With UPS Function for Variable-Speed Applications. IEEE Transactions on Industrial Electronics, 2008, 55, 3047-3054.	5.2	168
41	Microgrids management. IEEE Power and Energy Magazine, 2008, 6, 54-65.	1.6	1,338
42	A new control method for power quality improvement in island microgrids. , 2008, , .		10
43	Reliability Issues in Photovoltaic Power Processing Systems. IEEE Transactions on Industrial Electronics, 2008, 55, 2569-2580.	5.2	479
44	Linear Current Control Scheme With Series Resonant Harmonic Compensator for Single-Phase Grid-Connected Photovoltaic Inverters. IEEE Transactions on Industrial Electronics, 2008, 55, 2724-2733.	5.2	151
45	A DC Voltage Monitoring and Control Method for Three-Phase Grid-Connected Wind Turbine Inverters. IEEE Transactions on Power Electronics, 2008, 23, 1118-1125.	5.4	54
46	Line-Interactive UPS Using a Fuel Cell as the Primary Source. IEEE Transactions on Industrial Electronics, 2008, 55, 3012-3021.	5.2	181
47	An Advanced SVPWM-Based Predictive Current Controller for Three-Phase Inverters in Distributed Generation Systems. IEEE Transactions on Industrial Electronics, 2008, 55, 1235-1246.	5.2	191
48	FPGA-Based Real-Time Power Converter Failure Diagnosis for Wind Energy Conversion Systems. IEEE Transactions on Industrial Electronics, 2008, 55, 4299-4308.	5.2	212
49	A Control Scheme for PWM Voltage-Source Distributed-Generation Inverters for Fast Load-Voltage Regulation and Effective Mitigation of Unbalanced Voltage Disturbances. IEEE Transactions on Industrial Electronics, 2008, 55, 2072-2084.	5.2	107
50	Space Vector Sequence Investigation and Synchronization Methods for Active Front-End Rectifiers in High-Power Current-Source Drives. IEEE Transactions on Industrial Electronics, 2008, 55, 1022-1034.	5.2	103
51	Behavior of PWM Active Front Ends in the Presence of Parallel Thyristor Converters. IEEE Transactions on Industrial Electronics, 2008, 55, 1035-1046.	5.2	14
52	A Model-Based Direct Power Control for Three-Phase Power Converters. IEEE Transactions on Industrial Electronics, 2008, 55, 1647-1657.	5.2	168
53	Study of the Effects of Inductor Nonlinear Behavior on the Performance of Current Controllers for Single-Phase PV Grid Converters. IEEE Transactions on Industrial Electronics, 2008, 55, 2043-2052.	5.2	110
54	Energy-Balance Modeling and Discrete Control for Single-Phase Grid-Connected PV Central Inverters. IEEE Transactions on Industrial Electronics, 2008, 55, 2734-2743.	5.2	67

#	Article	IF	Citations
55	Development of a Methodology for Improving Photovoltaic Inverter Reliability. IEEE Transactions on Industrial Electronics, 2008, 55, 2581-2592.	5.2	198
56	Analysis Results of Output Power Loss Due to the Grid Voltage Rise in Grid-Connected Photovoltaic Power Generation Systems. IEEE Transactions on Industrial Electronics, 2008, 55, 2744-2751.	5.2	181
57	Behavioral modeling of current controled inverters for large signal analysis. , 2008, , .		1
58	Three phase LCL filter and transformer with integrated magnetics for grid connected converters. , 2008, , .		4
59	A Nonlinear Adaptive Synchronization Techniquefor Grid-Connected Distributed Energy Sources. IEEE Transactions on Power Electronics, 2008, 23, 2181-2186.	5.4	158
60	A nonlinear adaptive synchronization technique for single-phase grid-connected converters. , 2008, , .		17
61	Comparison of power converter topologies for permanent magnet small wind turbine system. , 2008, , .		30
62	Feedback Linearization Of Direct-Drive Synchronous Wind-Turbines Via a Sliding Mode Approach. IEEE Transactions on Power Electronics, 2008, 23, 1093-1103.	5.4	83
63	Kalman filter based synchronisation methods. IET Generation, Transmission and Distribution, 2008, 2, 542.	1.4	114
64	Wind power integration in isolated grids enabled by variable speed pumped storage hydropower plant. , 2008, , .		21
65	Performance analysis of VMC and CMCs of switch-mode converters for photovoltaic applications. , 2008, , .		2
66	An adaptive notch filtering approach for harmonic and reactive current extraction in active power filters. , 2008, , .		11
67	Photovoltaic power conditioning and maximum power point tracking by means of a self commutated inverter. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	1
68	DC voltage sensorless control strategy for three-phase grid-connected inverter. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	2
69	Experimental tests on a multilevel converter for grid-connected photovoltaic systems. , 2008, , .		3
70	Photovoltaic-battery powered DC Bus system for common portable electronic devices. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	1
71	Output quality evaluation of photovoltaic systems with different current control methods of switch-mode converters. , 2008, , .		0
72	A real-time selective harmonic extraction approach based on adaptive notch filtering. , 2008, , .		14

#	Article	IF	Citations
73	A single-phase adaptive synchronization tool for grid-connected converters. , 2008, , .		13
74	Droop control of a multifunctional PV inverter. , 2008, , .		7
75	Power management for hybrid fuel cell system. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	9
76	Digital control based on the shifting phase for grid connected photovoltaic inverter. IEEE Applied Power Electronics Conference and Exposition, 2008, , .	0.0	5
77	Control of autonomous solid oxide fuel cells subject to sudden load variations. , 2008, , .		2
78	Distributed Generation by Solid Oxide Fuel Cell: A Review. , 2008, , .		3
79	Operation strategies for stability of gearless wind power generation systems. , 2008, , .		19
80	An adaptive grid-voltage sensorless interfacing scheme for inverter-based distributed generation. , 2008, , .		2
81	Power flow control and islanding detection of the local generation system with induction generator. , 2008, , .		4
82	A real-time sequence components decomposition for transient analysis in grid-connected distributed generation systems. , 2008, , .		6
83	A fast and robust PLL of MCFC PCS under unbalanced grid voltages. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	8
84	Grid requirements, monitoring, synchronization and control of wind turbines under grid faults. , 2008, , .		4
85	Modulating functions method plus SOGI scheme for signal tracking. , 2008, , .		18
86	Rapid development of an FPGA controller for a Wind / Photovoltaic power system. , 2008, , .		7
87	Fault tolerance enhancement in distribution power grids: a voltage set-point reconfiguration approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 13563-13568.	0.4	1
88	Grid requirements, monitoring, synchronization and control of wind turbines under grid faults. , 2008, , .		3
89	Grid Synchronization and Voltage Analysis Based on the Kalman Filter. , 2009, , .		2
90	Implementation of Phase Locked Loops using Bit-Stream control techniques. , 2009, , .		3

#	Article	IF	Citations
91	PI state space current control of grid- connected PWM converters with LCL filters. , 2009, , .		3
92	Implementation of grid-connected power conditioner for renewable energy. , 2009, , .		1
93	Average and Phasor Models of Single Phase PV Generators for Analysis and Simulation of Large Power Distribution Systems. , 2009, , .		29
94	DC voltage control in DC feeding systems with using SOFC. , 2009, , .		0
95	Novel Simplified Controller for Three Phase Grid Connected Inverter Based on Instantaneous Complex Power. , 2009, , .		6
96	Grid synchronization techniques for converter interfaced distributed generation systems. , 2009, , .		13
97	Renewable Energy Systems Instability Involving Grid-Parallel Inverters. , 2009, , .		59
98	Multiple second order generalized integrators for harmonic synchronization of power converters. , 2009, , .		68
99	Adaptive notch filtering based grid synchronization techniques for converter interfaced distributed generation systems. , 2009, , .		1
100	A command governor approach to the voltage regulation problem in MV/LV networks with renewable generation units. , 2009, , .		5
101	Implementation on DSP TMS320F2812 of the control of the grid converter of a small wind turbine system. , 2009, , .		6
102	Grid interconnection of distributed generation: The Spanish normative. , 2009, , .		5
103	Design and application of a Linux Real Time board for distributed power generation. , 2009, , .		1
104	A space-vector discrete Fourier transform for detecting harmonic sequence components of three-phase signals. , 2009, , .		11
105	An Improved DC-Link Voltage Control Method for Multiple Grid Connected Converter in Direct Drive Wind Power Generation System. , 2009, , .		6
106	A hybrid control method for three-phase grid-connected inverters with high quality power. , 2009, , .		1
107	Distributed energy resources interconnection: The Spanish normative. , 2009, , .		3
108	Investigation of active damping approaches for PI-based current control of grid-connected PWM converters with LCL filters. , 2009, , .		19

#	Article	IF	Citations
109	A novel Voltage-Source Converter topology suitable for interface of renewable sources. , 2009, , .		6
110	Characterization of differential-mode filter for grid-side converters. , 2009, , .		7
111	A novel three-phase rectifier with high power factor for wind energy conversion systems. , 2009, , .		14
112	Control and protection of power electronics interfaced distributed generation systems in a customer-driven microgrid. , 2009, , .		121
113	Synchronization techniques for grid connected wind turbines. , 2009, , .		19
114	A novel DC voltage regulation scheme for dual-inverter grid-connected photovoltaic plants. , 2009, , .		5
115	Mitigation of harmonic distortion by power electronic interface connecting distributed generation sources to a weak grid. , 2009, , .		4
116	A three-phase harmonic decomposition technique for grid-connected converters. , 2009, , .		1
117	Three-phase grid synchronization techniques for grid connected converters in distributed generation systems. , 2009, , .		13
118	Application of a novel soft phase-locked loop in directly-driven permanent magnet wind power generation system. , 2009, , .		0
119	Modeling of an autonomous microgrid for renewable energy sources integration. , 2009, , .		15
120	Control of grid-connected DC-AC converters in distributed generation: Experimental comparison of different schemes. , 2009, , .		8
121	A Recursive Park Transformation to Improve the Performance of Synchronous Reference Frame Controllers in Shunt Active Power Filters. IEEE Transactions on Power Electronics, 2009, 24, 2065-2075.	5.4	65
122	Hybrid PV-CHP distributed system: Design aspects and realization. , 2009, , .		8
123	A Hybrid Fuel Cell Power System. IEEE Transactions on Industrial Electronics, 2009, 56, 1212-1222.	5.2	263
124	Z-source inverter with grid connected for wind power system. , 2009, , .		16
125	A Fast and Accurate Synchronization Technique for Extraction of Symmetrical Components. IEEE Transactions on Power Electronics, 2009, 24, 674-684.	5.4	212
126	Wavelet-Based Islanding Detection in Grid-Connected PV Systems. IEEE Transactions on Industrial Electronics, 2009, 56, 4445-4455.	5.2	162

#	Article	IF	Citations
127	A DCM three-phase high frequency semi-controlled rectifier feasible for low power WECS based on a permanent magnet generator. , 2009, , .		9
128	Improved Direct Power Control of Grid-Connected DC/AC Converters. IEEE Transactions on Power Electronics, 2009, 24, 1280-1292.	5.4	177
129	Methodology for Smooth Connection of Doubly Fed Induction Generators to the Grid. IEEE Transactions on Energy Conversion, 2009, 24, 959-971.	3.7	57
130	Low-voltage ride-through of variable speed wind turbines with permanent magnet synchronous generator. , 2009, , .		22
131	Power electronics and control for wind power systems. , 2009, , .		18
132	Vector control of single-phase voltage source converters based on Fictive Axis Emulation. , 2009, , .		16
133	A review of challenges to real-time power management of microgrids. , 2009, , .		116
134	Control Design Guidelines for Single-Phase Grid-Connected Photovoltaic Inverters With Damped Resonant Harmonic Compensators. IEEE Transactions on Industrial Electronics, 2009, 56, 4492-4501.	5.2	235
135	A Generic Open-Loop Algorithm for Three-Phase Grid Voltage/Current Synchronization With Particular Reference to Phase, Frequency, and Amplitude Estimation. IEEE Transactions on Power Electronics, 2009, 24, 94-107.	5.4	117
136	A Power Electrical Signal Tracking Strategy Based on the Modulating Functions Method. IEEE Transactions on Industrial Electronics, 2009, 56, 4079-4087.	5.2	63
137	Complex-Valued State Matrices for Simple Representation of Large Autonomous Microgrids Supplied by PQ and Vf Generation. IEEE Transactions on Power Systems, 2009, 24, 1720-1730.	4.6	69
138	Single-phase grid-synchronization algorithms for converter interfaced distributed generation systems. , 2009, , .		8
139	Speed sensorless control of a PMSG for small wind turbine systems. , 2009, , .		9
140	Control of Power Electronic Interface for renewable energy sources under distorted grid voltage. , 2009, , .		5
141	Dual-inverter-based MPPT algorithm for grid-connected photovoltaic systems. , 2009, , .		9
142	Direct Power Control for three-phase power converters under distorted input voltages. , 2009, , .		6
143	Enhancing the three-phase synchronous reference frame PLL to remove unbalance and harmonic errors. , 2009, , .		30
144	Sequence-Decoupled Resonant Controller for Three-phase Grid-connected Inverters. , 2009, , .		14

#	Article	IF	Citations
145	Control of a cascaded H-bridge multilevel converter for grid connection of photovoltaic systems. , 2009, , .		116
146	Adaptive Grid-Voltage Sensorless Control Scheme for Inverter-Based Distributed Generation. IEEE Transactions on Energy Conversion, 2009, 24, 683-694.	3.7	44
147	Wind-solar resource complementarity and its combined correlation with electricity load demand. , 2009, , .		17
148	Photovoltaic-Battery-Powered DC Bus System for Common Portable Electronic Devices. IEEE Transactions on Power Electronics, 2009, 24, 849-855.	5.4	138
149	Design of storage system for a hybrid renewable power system. , 2009, , .		5
150	A nonlinear approach to control instantaneous power for single-phase grid-connected photovoltaic systems. , 2009, , .		6
151	Control of DFIG-WT under unbalanced grid voltage conditions. , 2009, , .		12
152	H∞ repetitive current controller for grid-connected inverters. , 2009, , .		13
153	Dead-time compensation method of a 600KW Electrical Balance Of Plant with LC filter for Molten Carbonate Fuel Cell. , 2009, , .		0
154	Distributed resources standards: The case of Spain. , 2009, , .		2
155	Robust positive-sequence detector algorithm. , 2009, , .		3
156	Adaptive neuro-fuzzy control of renewable interfacing inverter to maintain smooth power flow and non-linear unbalanced load compensation simultaneously. , 2009, , .		4
157	SRF-PLL with dynamic center frequency for improved phase detection. , 2009, , .		17
158	The maximum power point tracking based on the double index model of PV cells. , 2009, , .		10
159	Fault ride through techniques of DFIG-based wind energy systems. , 2009, , .		0
160	Power converters for photovoltaic generation systems in smart grid applications. , 2009, , .		4
161	A Single-Phase Voltage-Controlled Grid-Connected Photovoltaic System With Power Quality Conditioner Functionality. IEEE Transactions on Industrial Electronics, 2009, 56, 4436-4444.	5.2	208
162	Real-Time Emulation of a Hydrogen-Production Process for Assessment of an Active Wind-Energy Conversion System. IEEE Transactions on Industrial Electronics, 2009, 56, 737-746.	5.2	55

#	Article	IF	Citations
163	Hybrid Active Filter for Reactive and Harmonics Compensation in a Distribution Network. IEEE Transactions on Industrial Electronics, 2009, 56, 670-677.	5.2	125
164	Limitations of Voltage-Oriented PI Current Control of Grid-Connected PWM Rectifiers With LCL Filters. IEEE Transactions on Industrial Electronics, 2009, 56, 380-388.	5.2	619
165	Sensitivity Study of the Dynamics of Three-Phase Photovoltaic Inverters With an LCL Grid Filter. IEEE Transactions on Industrial Electronics, 2009, 56, 706-717.	5.2	230
166	Design of LCL Filters of Active-Front-End Two-Level Voltage-Source Converters. IEEE Transactions on Industrial Electronics, 2009, 56, 1674-1689.	5.2	364
167	Design Strategy to Optimize the Reliability of Grid-Connected PV Systems. IEEE Transactions on Industrial Electronics, 2009, 56, 4465-4472.	5.2	63
168	Hybrid Power Filter to Enhance Power Quality in a Medium-Voltage Distribution Network. IEEE Transactions on Industrial Electronics, 2009, 56, 2885-2893.	5.2	92
169	Voltage Support Provided by a Droop-Controlled Multifunctional Inverter. IEEE Transactions on Industrial Electronics, 2009, 56, 4510-4519.	5.2	279
170	Model Predictive Control of an Inverter With Output LC Filter for UPS Applications. IEEE Transactions on Industrial Electronics, 2009, 56, 1875-1883.	5.2	552
171	A Robust Predictive Current Control for Three-Phase Grid-Connected Inverters. IEEE Transactions on Industrial Electronics, 2009, 56, 1993-2004.	5.2	178
172	Control Strategies Based on Symmetrical Components for Grid-Connected Converters Under Voltage Dips. IEEE Transactions on Industrial Electronics, 2009, 56, 2162-2173.	5.2	312
173	Direct Virtual Torque Control for Doubly Fed Induction Generator Grid Connection. IEEE Transactions on Industrial Electronics, 2009, 56, 4163-4173.	5.2	119
174	Fuzzy-Logic-Based V/f Control of an Induction Motor for a DC Grid Power-Leveling System Using Flywheel Energy Storage Equipment. IEEE Transactions on Industrial Electronics, 2009, 56, 3161-3168.	5.2	67
175	A Real-Time Three-Phase Selective-Harmonic-Extraction Approach for Grid-Connected Converters. IEEE Transactions on Industrial Electronics, 2009, 56, 4097-4106.	5.2	42
176	A New Multilevel Conversion Structure for Grid-Connected PV Applications. IEEE Transactions on Industrial Electronics, 2009, 56, 4416-4426.	5.2	160
177	A Technique for Improving P&O MPPT Performances of Double-Stage Grid-Connected Photovoltaic Systems. IEEE Transactions on Industrial Electronics, 2009, 56, 4473-4482.	5.2	373
178	Current Sensor Fault-Tolerant Control for WECS With DFIG. IEEE Transactions on Industrial Electronics, 2009, 56, 4660-4670.	5.2	74
179	Reconfiguration strategies for Doubly Fed Induction Generators based wind system. , 2009, , .		2
180	Modeling of zinc energy storage system for integration with renewable energy. , 2009, , .		3

#	Article	IF	Citations
181	Optimal design of current and voltage controllers for a distributed energy resource. , 2009, , .		4
182	Grid-connected inverter power flow control based on a new modeling approach of electrical signals. , 2009, , .		6
183	Improved model of photovoltaic sources considering ambient temperature and solar irradiation. , 2009, , .		10
184	A novel photovoltaic grid-connected power conditioner employing hybrid multilevel inverter. , 2009, , .		6
185	Dc voltage sensorless control method for three-phase grid-connected inverters. IET Power Electronics, 2010, 3, 552.	1.5	7
186	Hâˆž repetitive voltage control of grid-connected inverters with a frequency adaptive mechanism. IET Power Electronics, 2010, 3, 925.	1.5	79
187	Simultaneous STATCOM and Pitch Angle Control for Improved LVRT Capability of Fixed-Speed Wind Turbines. IEEE Transactions on Sustainable Energy, 2010, 1, 142-151.	5.9	103
188	A Predictive Power Control for Wind Energy. IEEE Transactions on Sustainable Energy, 2010, , .	5.9	41
189	Future Energy Systems: Integrating Renewable Energy Sources into the Smart Power Grid Through Industrial Electronics. IEEE Industrial Electronics Magazine, 2010, 4, 18-37.	2.3	817
190	Renewable Energy Operation and Conversion Schemes: A Summary of Discussions During the Seminar on Renewable Energy Systems. IEEE Industrial Electronics Magazine, 2010, 4, 38-51.	2.3	113
191	Power converter topologies for wind energy conversion systems: Integrated modeling, control strategy and performance simulation. Renewable Energy, 2010, 35, 2165-2174.	4.3	69
192	Improvement of power quality using distributed generation. International Journal of Electrical Power and Energy Systems, 2010, 32, 1069-1076.	3.3	63
193	Grid interconnection of renewable energy sources: Spanish legislation. Energy for Sustainable Development, 2010, 14, 104-109.	2.0	12
194	Grid-fault ride-through analysis and control of wind turbines with doubly fed induction generators. Electric Power Systems Research, 2010, 80, 184-195.	2.1	100
195	Um controlador de corrente de carga para o conversor em matriz trifÃ¡sico para trifÃ¡sico e para o inversor de frequÃªncia sem capacitor do elo de corrente contÃnua. Controle and Automacao, 2010, 21, 534-545.	0.2	0
196	Design of a Grid-Connected Inverter for a Hybrid Renewable Power System. Advanced Materials Research, 2010, 108-111, 1471-1476.	0.3	0
197	Dynamic behavior of PEM fuel cell and gas turbine power plant in autonomous mode. , 2010, , .		0
198	Enhanced Single Phase Locked Loop for Grid-Connected Converter in Distribution Network. , 2010, , .		2

#	Article	IF	Citations
199	A three-phase adaptive approach to extract harmonic and reactive currents. , 2010, , .		0
200	High performance synchronization algorithm for 600kW EBOP of fuel cell generation system. , 2010, , .		0
201	Synchronization of an inverter to a distributed power network. , 2010, , .		2
202	A novel PLL for grid synchronization of power electronic converters in unbalanced and variable-frequency environment. , 2010, , .		21
203	An enhanced stationary reference frame control for grid-connected distributed power generation systems. , 2010, , .		0
204	Simple flywheel energy storage using squirrel-cage induction machine for DC bus microgrid systems. , 2010, , .		7
205	Low effort digital filters for fast sequence components separation of unbalanced and distorted three-phase signals. , 2010, , .		1
206	Modeling and Simulation of Generator Side Converter of Doubly Fed Induction Generator-Based Wind Power Generation System. , 2010, , .		1
207	A novel feed-forward and feed-back control of a VSI for variable speed wind-driven PM alternators. International Journal of Power Electronics, 2010, 2, 200.	0.1	0
208	Agent-based competitive simulation. , 2010, , .		7
209	Relevant aspects in designing a photovoltaic inverter for industrial and commercial applications. , 2010, , .		5
210	Simplified Synchronous Reference Frame Control of the three phase grid connected inverter. , 2010, , .		3
213	Control of grid interactive AC microgrids. , 2010, , .		22
214	Distributed energy resources in grid interactive AC microgrids. , 2010, , .		28
215	Predictive Current Control of a SVM-PWM Power Converter Used in Wind Turbine Applications. , 2010, , .		2
216	Embedding measurement in Distribution Automation Systems. , 2010, , .		5
217	Modeling and analysis of a grid-connected wind energy conversion system using PSCAD/EMTDC. , 2010, , .		3
218	A robust control scheme for grid-connected voltage source inverters. , 2010, , .		11

#	Article	IF	Citations
219	Transformerless photovoltaic systems using neutral point clamped multilevel inverters. , 2010, , .		12
220	High-efficiency bidirectional AC-DC converter for energy storage systems. , 2010, , .		16
221	Parallel connection of grid-connected LCL inverters for MW-scaled photovoltaic Systems. , 2010, , .		19
222	Single-phase grid-tie inverter control using DQ transform for active and reactive load power compensation. , 2010, , .		73
223	Interconnection and damping assignment passivity-based current control of grid-connected PWM converter with LCL-filter. , 2010, , .		14
224	Grid-connected voltage source inverter for renewable energy conversion system with sensorless current control. , 2010, , .		9
225	Control of photovoltaic generation assisted by repetitive controller. , 2010, , .		0
226	Power and energy analysis of commercial small wind turbine systems. , 2010, , .		13
227	Z-source inverter based grid connected for PMSG wind power system. , 2010, , .		8
228	Potential-Function Based Control of a Microgrid in Islanded and Grid-Connected Modes. IEEE Transactions on Power Systems, 2010, 25, 1883-1891.	4.6	351
230	PI State Space Current Control of Grid-Connected PWM Converters With LCL Filters. IEEE Transactions on Power Electronics, 2010, 25, 2320-2330.	5.4	311
231	A Control Strategy for a Distributed Power Generation Microgrid Application With Voltage- and Current-Controlled Source Converter. IEEE Transactions on Power Electronics, 2010, 25, 2981-2992.	5.4	210
232	Soft-Switching Converter With HF Transformer for Grid-Connected Photovoltaic Systems. IEEE Transactions on Industrial Electronics, 2010, 57, 1678-1686.	5.2	99
234	Distributed intelligence for smart grid control. , 2010, , .		17
235	Protection Principles for Future Microgrids. IEEE Transactions on Power Electronics, 2010, 25, 2910-2918.	5.4	399
236	A single-phase photovoltaic inverter topology with a series-connected power buffer. , 2010, , .		24
237	A Three-Phase Adaptive Notch Filter-Based Approach to Harmonic/Reactive Current Extraction and Harmonic Decomposition. IEEE Transactions on Power Electronics, 2010, 25, 914-923.	5.4	86
238	A predictive power control for wind energy. , 2010, , .		3

#	Article	IF	Citations
239	A novel three-phase Quasi-soft-Switching DC/AC inverter. , 2010, , .		8
240	New Resolution of the Unbalance Power According to Std. 1459. IEEE Transactions on Power Delivery, 2010, 25, 341-350.	2.9	13
241	Composite Loads in Stand-Alone Inverter-Based Microgridsâ€"Modeling Procedure and Effects on Load Margin. IEEE Transactions on Power Systems, 2010, 25, 894-905.	4.6	38
242	Control of three phase grid connected photovoltaic power systems. , 2010, , .		22
243	Enhanced power quality control strategy for single-phase inverters in distributed generation systems. , 2010, , .		8
244	Reactive power compensation and active filtering capability of WECS with DFIG without any overâ€rating. Wind Energy, 2010, 13, 603-614.	1.9	27
245	Robustness evaluation of phase-locked loop algorithms for single-phase distributed generation systems. , 2010, , .		6
246	A grid-tie battery energy storage system. , 2010, , .		19
247	Low voltage ride-through of wind turbine based on interior Permanent Magnet Synchronous Generators sensorless vector controlled. , 2010, , .		15
248	Behavioral modeling and simulation of single-phase grid-connected photovoltaic inverters. , 2010, , .		0
249	A predictive control strategy for doubly-fed induction generator direct power control. , 2010, , .		0
250	Improved Shunt Active Power Compensator for IEEE Standard 1459 Compliance. IEEE Transactions on Power Delivery, 2010, 25, 2692-2701.	2.9	32
251	A Generalized Class of Stationary Frame-Current Controllers for Grid-Connected ACâ€"DC Converters. IEEE Transactions on Power Delivery, 2010, 25, 2742-2751.	2.9	147
252	Investigation of Active Damping Approaches for PI-Based Current Control of Grid-Connected Pulse Width Modulation Converters With LCL Filters. IEEE Transactions on Industry Applications, 2010, 46, 1509-1517.	3.3	475
253	A Synchronous Reference Frame Robust Predictive Current Control for Three-Phase Grid-Connected Inverters. IEEE Transactions on Industrial Electronics, 2010, 57, 954-962.	5.2	124
254	Modulation Techniques to Eliminate Leakage Currents in Transformerless Three-Phase Photovoltaic Systems. IEEE Transactions on Industrial Electronics, 2010, 57, 1360-1368.	5.2	248
255	Three-Level Bidirectional Converter for Fuel-Cell/Battery Hybrid Power System. IEEE Transactions on Industrial Electronics, 2010, 57, 1976-1986.	5.2	185
256	Extending the Life of Gear Box in Wind Generators by Smoothing Transient Torque With STATCOM. IEEE Transactions on Industrial Electronics, 2010, 57, 476-484.	5.2	79

#	Article	IF	Citations
257	Frequency-Shift Acceleration Control for Anti-Islanding of a Distributed-Generation Inverter. IEEE Transactions on Industrial Electronics, 2010, 57, 494-504.	5.2	37
258	Measurement of the Loop Gain Frequency Response of Digitally Controlled Power Converters. IEEE Transactions on Industrial Electronics, 2010, 57, 2785-2796.	5.2	31
259	A Space-Vector Discrete Fourier Transform for Unbalanced and Distorted Three-Phase Signals. IEEE Transactions on Industrial Electronics, 2010, 57, 2858-2867.	5.2	72
260	A New Feedback Method for PR Current Control of LCL-Filter-Based Grid-Connected Inverter. IEEE Transactions on Industrial Electronics, 2010, 57, 2033-2041.	5.2	424
261	The Impact of Transport Electrification on Electrical Networks. IEEE Transactions on Industrial Electronics, 2010, 57, 3917-3926.	5.2	236
262	Stability and Bandwidth Implications of Digitally Controlled Grid-Connected Parallel Inverters. IEEE Transactions on Industrial Electronics, 2010, 57, 3685-3694.	5.2	97
263	Decentralized LQG control with online set-point adaptation for parallel power converter systems. , 2010, , .		20
264	Coordinated control scheme for stand-alone PV system with nonlinear load. , 2010, , .		0
265	Design and Realization of Improved Phase Locked Loop Under Unbalanced Grid Voltage in Wind Power Systems. , 2010, , .		4
266	Integrated Single-Phase Inverter with an Auxiliary Step-Up Circuit for Low-Voltage Alternative Energy Source Applications. , 2010, , .		0
267	Grid-Fault Control Scheme for Three-Phase Photovoltaic Inverters With Adjustable Power Quality Characteristics. IEEE Transactions on Power Electronics, 2010, 25, 2930-2940.	5.4	165
268	Robustness analysis of Wind Turbines based on PMSG with sensorless vector control. , 2010, , .		6
269	Modeling and simulation of grid side converter based wind power generation system. , 2010, , .		0
270	Self Adaptation of Cooperation in Multi-agent Content Sharing Systems. , 2010, , .		2
271	A Novel Integrated Single-Phase Inverter With Auxiliary Step-Up Circuit for Low-Voltage Alternative Energy Source Applications. IEEE Transactions on Power Electronics, 2010, 25, 2234-2241.	5.4	29
272	A Three-Phase High-Frequency Semicontrolled Rectifier for PM WECS. IEEE Transactions on Power Electronics, 2010, 25, 677-685.	5.4	104
273	Efficient linear controller design for power electronic converters. , 2010, , .		4
274	Optimal coordination control for stand-alone PV system with nonlinear load. , 2010, , .		3

#	Article	IF	Citations
275	Power electronics and controls for wind turbine systems. , 2010, , .		35
276	A look at the role and main topologies of battery energy storage systems for integration in autonomous microgrids. , 2010, , .		18
277	Synchronous reference frame hysteresis current control for grid converter applications. , 2010, , .		0
278	Full Feedforward of Grid Voltage for Grid-Connected Inverter With LCL Filter to Suppress Current Distortion Due to Grid Voltage Harmonics. IEEE Transactions on Power Electronics, 2010, 25, 3119-3127.	5.4	298
279	Critical clearing time for isolating microgrids with inverter and synchronous based Distributed Generation. , 2010, , .		8
280	Trends in power electronics and control of renewable energy systems. , 2010, , .		73
281	Analysis and specification of DC side voltage in parallel active power filter with SVM control regarding compensation characteristics. , 2010, , .		1
282	Comparison and evaluation of the PLL techniques for the design of the grid-connected inverter systems. , 2010, , .		130
283	Study of a simple control strategy for grid connected VSI using SVPWM and p-q theory. , 2010, , .		4
284	Design of D-STATCOM for voltage regulation in Microgrids. , 2010, , .		15
285	Sensorless control strategy for grid connected PV array and wind-driven induction generators. , 2010, , .		0
286	Enhancing quality of power to sensitive loads with MicroGrid. , 2010, , .		2
287	A fast, accurate and robust algorithm to detect fundamental and harmonic sequences. , 2010, , .		10
288	Voltage control of grid-connected inverters based on H[∞] and repetitive control. , 2010, , .		6
289	A novel frequency-adaptive PLL for single-phase grid-connected converters. , 2010, , .		17
290	Frequency-adaptive Virtual Flux estimation for grid synchronization under unbalanced conditions. , 2010, , .		14
291	Phase Locked Loop for unbalanced utility conditions. , 2010, , .		9
292	Sensorless Power Maximization of PMSG Based Isolated Wind-Battery Hybrid System Using Adaptive Neuro-Fuzzy Controller. , 2010, , .		7

#	Article	IF	Citations
293	Grid-connected inverter with inner output impedance and governor-free characteristics. , 2010, , .		8
294	An integrated communication system with a web interface for Distributed Generation systems. , 2010, , .		4
295	Evaluation of current controller performance and stability for voltage source converters connected to a weak grid. , 2010, , .		85
296	Impact of Virtual Flux reference frame orientation on voltage source inverters in weak grids. , 2010, , .		9
297	Space vector modulated three-phase current source converter for DC motor drive. , 2010, , .		3
298	Monitoring and synchronization techniques for single-phase PV systems. , 2010, , .		32
299	A predictive direct power control of doubly-fed induction generator. , 2010, , .		1
300	Control of three-phase converters for grid-connected renewable energy systems using feedback linearization technique. , 2010, , .		6
301	Design and construction of a test bench to characterize efficiency and reliability of high voltage battery energy storage systems. , 2010, , .		7
302	Grid connected photovoltaic topologies with current harmonic compensation. , 2010, , .		3
303	Grid-connected Voltage Source Converter operation under distorted grid voltage. , 2010, , .		8
304	Improved phase-locked loop for distributed power generation systems. , 2011, , .		2
305	Analysis of voltage faults in the grid-connected inverter of a wind power generation system using real-time digital simulator. , 2011, , .		4
306	Synchronization of a single-phase photovoltaic generator with the grid. , 2011, , .		3
307	Synchronization method with variable sampling frequency using Neuronal Networks. IEEE Latin America Transactions, 2011, 9, 715-720.	1.2	0
308	A cloud computing approach for power management of microgrids. , 2011, , .		10
309	Control of three-phase voltage source inverter for renewable energy applications. , 2011, , .		9
310	Characterization of inverter-grid interactions using a hardware-in-the-loop system test-bed. , 2011, , .		26

#	Article	IF	Citations
311	Resolution-level controlled wind energy conversion system for PM generators. , 2011, , .		1
312	Grid interconnection of distributed generation system with power quality improvement features. , 2011, , .		8
313	Fast harmonic detection based on cascaded delayed signal cancellation PLL. , 2011, , .		3
314	An improved virtual resistance damping method for grid-connected inverters with LCL filters. , 2011, , .		32
315	Fuel cell distributed generation system's control in autonomous mode. , 2011, , .		4
316	Current control method for distributed generation power generation plants under grid fault conditions. , 2011, , .		30
317	Inverter topologies and control structure in photovoltaic applications: A review. Journal of Renewable and Sustainable Energy, 2011, 3, .	0.8	34
318	A Comprehensive Study of Neutral-Point Self-Balancing Effect in Neutral-Point-Clamped Three-Level Inverters. IEEE Transactions on Power Electronics, 2011, 26, 3084-3095.	5.4	116
319	Bacterial foraging-based PI controller of inverter-based distributed generators. , 2011, , .		3
320	A control method for maximum power point tracking of a PMSG-based WECS using online parameter identification of wind turbine. , 2011, , .		14
321	Single phase grid connected current source inverter: Mitigation of oscillating power effect on the grid current. , 2011, , .		21
322	Suppression of Low- and High-Frequency Instabilities and Grid-Induced Disturbances in Distributed Generation Inverters. IEEE Transactions on Power Electronics, 2011, 26, 3790-3803.	5.4	80
323	A frequency adaptive resonant controller for fixed point digital implementation at high sampling frequency. , 2011, , .		3
324	Change of paradigm in power electronic converters used in renewable energy applications. , 2011, , .		6
325	Sensor-less Sliding Mode Control of a stand-alone wound rotor synchronous generator with unbalanced load. , 2011, , .		1
326	Connecting renewable energy sources into the smartgrid. , 2011, , .		12
327	Impedance-Based Stability Criterion for Grid-Connected Inverters. IEEE Transactions on Power Electronics, 2011, 26, 3075-3078.	5.4	1,826
328	Model predictive control of a flying capacitor converter with output LC filter for UPS applications. , 2011, , .		6

#	Article	IF	Citations
329	Control of parallel-connected bidirectional AC-DC converters in stationary frame for microgrid application. , 2011, , .		21
330	Secondary control for voltage unbalance compensation in an islanded microgrid. , 2011, , .		9
331	Selective compensation of voltage harmonics in an islanded microgrid. , 2011, , .		7
332	Hierarchical control scheme for voltage Harmonics Compensation in an islanded droop-controlled microgrid. , 2011, , .		24
333	Voltage transient analysis of a PMSG wind power system using controller-hardware-in-the loops. , 2011, , .		10
334	Power control of single-phase voltage source inverter for grid-connected photovoltaic systems. , 2011, , .		43
335	A Lyapunov function based current controller to control active and reactive power flow in a three phase grid connected PV inverter under generalized grid voltage conditions. , 2011, , .		21
336	Power Quality Improvement for Mircrogrid in Islanded Mode. Procedia Engineering, 2011, 23, 174-179.	1.2	20
337	Robust frequency-estimation method for distorted and imbalanced three-phase systems using discrete filters. IEEE Transactions on Power Electronics, 2011, 26, 1089-1101.	5.4	60
338	A FBD theory based grid frequency independent current reference generation method for a three phase inverter interfacing renewable energy sources to generalized micro-grid. , 2011, , .		4
339	Hierarchical control scheme for voltage unbalance compensation in islanded microgrids. , 2011, , .		8
340	Control and operation of wind turbine converters during faults in an offshore wind power plant grid with VSC-HVDC connection. , 2011, , .		12
341	Performance improvement of single-phase grid — Connected PWM inverter using PI with hysteresis current controller. , 2011, , .		14
342	Evaluation of current reference generation methods for a three-phase inverter interfacing renewable energy sources to generalized micro-grid. , 2011, , .		2
343	Low cost single-phase semi-Z-source inverter. , 2011, , .		13
344	Analysis of PI and PR controllers for distributed power generation system under unbalanced grid faults. , 2011, , .		20
345	Control strategies for VSC-based HVDC transmission system. , 2011, , .		12
346	Simulation of three-phase grid connected parallel inverters with current error compensation control. , 2011, , .		1

#	Article	IF	Citations
347	Distributed control of smart microgrids by dynamic grid mapping. , 2011, , .		4
348	Control of Full-Scale Converter based Wind Power Plants for damping of low frequency system oscillations. , 2011, , .		10
349	Synchronous generator based wind energy conversion system (WECS) using multi-modular converters with autonomous controllers. , 2011, , .		6
350	Experimental evaluation of voltage unbalance compensation in an islanded microgrid. , 2011, , .		12
351	Derivation of instantaneous current references for three phase PV inverter connected to grid with active and reactive power flow control. , 2011, , .		26
352	Allowable DG penetration level considering harmonic distortions. , 2011, , .		8
353	Smart grid and renewable energy systems. , 2011, , .		36
354	Detailed analysis of generator emulation control impedance network of microgrid inverters. , 2011, , .		1
355	Extended Kalman filter based grid synchronization in the presence of voltage unbalance for smart grid. , 2011, , .		18
356	Novel bidirectional ac-dc MOSFET converter for energy storage system applications. , 2011, , .		8
357	Grid synchronization PLL robust to frequency variation, unbalanced and distorted voltage. , 2011, , .		5
358	Power electronics - key technology for renewable energy systems. , 2011, , .		40
359	Control of power converters in distributed generation applications under grid fault conditions. , 2011, , .		25
360	Modulation for three-phase transformerless neutral point clamped inverter in photovoltaic systems. , 2011, , .		6
361	Comparative study between adaptive hysteresis and SVPWM current control for grid-connected inverter system. , 2011, , .		15
362	Local smart micro-grids. , 2011, , .		2
363	Multivariable-PI-Based dq Current Control of Voltage Source Converters With Superior Axis Decoupling Capability. IEEE Transactions on Industrial Electronics, 2011, 58, 3016-3026.	5.2	184
364	Power electronics converters for wind turbine systems. , 2011, , .		28

#	Article	IF	Citations
365	Simplified Modeling of a DFIG for Transient Studies in Wind Power Applications. IEEE Transactions on Industrial Electronics, 2011, 58, 9-20.	5.2	161
366	A Coordinated Control Method to Smooth Wind Power Fluctuations of a PMSG-Based WECS. IEEE Transactions on Energy Conversion, 2011, 26, 550-558.	3.7	281
367	Performance Evaluation of Active Islanding-Detection Algorithms in Distributed-Generation Photovoltaic Systems: Two Inverters Case. IEEE Transactions on Industrial Electronics, 2011, 58, 1185-1193.	5.2	82
368	Mitigation of Converter-Grid Resonance, Grid-Induced Distortion, and Parametric Instabilities in Converter-Based Distributed Generation. IEEE Transactions on Power Electronics, 2011, 26, 983-996.	5.4	47
369	A Modified Stationary Reference Frame-Based Predictive Current Control With Zero Steady-State Error for LCL Coupled Inverter-Based Distributed Generation Systems. IEEE Transactions on Industrial Electronics, 2011, 58, 1359-1370.	5.2	107
370	Vector Control of Single-Phase Voltage-Source Converters Based on Fictive-Axis Emulation. IEEE Transactions on Industry Applications, 2011, 47, 831-840.	3.3	177
371	A Correlation-Based Islanding-Detection Method Using Current-Magnitude Disturbance for PV System. IEEE Transactions on Industrial Electronics, 2011, 58, 2935-2943.	5.2	45
372	Overview of Multi-MW Wind Turbines and Wind Parks. IEEE Transactions on Industrial Electronics, 2011, 58, 1081-1095.	5.2	726
373	Power Flow Stabilization and Control of Microgrid with Wind Generation by Superconducting Magnetic Energy Storage. IEEE Transactions on Power Electronics, 2011, 26, 910-922.	5.4	154
374	Control and Operation of a DC Microgrid With Variable Generation and Energy Storage. IEEE Transactions on Power Delivery, 2011, 26, 2513-2522.	2.9	510
375	Low-Cost Semi-Z-source Inverter for Single-Phase Photovoltaic Systems. IEEE Transactions on Power Electronics, 2011, 26, 3514-3523.	5.4	184
376	Grid Interconnection of Renewable Energy Sources at the Distribution Level With Power-Quality Improvement Features. IEEE Transactions on Power Delivery, 2011, 26, 307-315.	2.9	392
377	Optimized pole and zero placement with state observer for LCL-type grid-connected inverter. , 2011, , .		13
378	A Robust Natural-Frame-Based Interfacing Scheme for Grid-Connected Distributed Generation Inverters. IEEE Transactions on Energy Conversion, 2011, 26, 728-736.	3.7	42
379	Dual-power PV-grid energy system utilizing multilevel inverter — An Overview and alternative to PV energy system in Malaysia. , 2011, , .		5
380	Common voltage eliminating of SVM diode clamping three-level inverter connected to grid. , 2011, , .		1
381	Power quality improvement of 1-Φ grid-connected PWM inverter using fuzzy with hysteresis current controller. , 2011, , .		6
382	Investigation on performance of Doubly-fed induction generator driven by wind turbine under grid voltage fluctuation. , 2011, , .		5

#	Article	IF	Citations
383	Fuzzy Logic Based-SVPWM Current Controller for Inverter-Interfaced Distributed Generation System. , 2011, , .		0
384	Experimental study on adaptive hysteresis current controller for inverter-interfaced 1-Φ grid connected system. , 2011, , .		7
385	Reactive power compensation in inverter-interfaced distributed generation. , 2011, , .		6
386	Model Predictive Direct Power Control for grid-connected converters. , 2011, , .		20
387	A Unified Dynamic Characterization Framework for Microgrid Systems. Electric Power Components and Systems, 2011, 40, 93-111.	1.0	26
388	Designing an Energy Storage System Fuzzy PID Controller for Microgrid Islanded Operation. Energies, 2011, 4, 1443-1460.	1.6	57
389	Indirect current control of BTB-VSC with cage-rotor induction generator operating in grid connected and isolated mode. , 2011, , .		2
390	A high step-up current fed multi-resonant converter with output voltage doubler. , 2011, , .		14
391	A grid synchronization method for droop controlled distributed energy resources converters. , 2011, , .		11
392	Application of Adaptive Network-Based Fuzzy Inference System for Sensorless Control of PMSG-Based Wind Turbine With Nonlinear-Load-Compensation Capabilities. IEEE Transactions on Power Electronics, 2011, 26, 165-175.	5.4	160
393	Power flow control of inverter based distributed generators in LV microgrids. , 2011, , .		6
394	Grid interaction of DG units with a modified mixed cascade flying capacitor multicell inverter. , 2011, , .		2
395	Synchronous Reference Frame Hysteresis Current Control for Grid Converter Applications. IEEE Transactions on Industry Applications, 2011, 47, 2183-2194.	3.3	75
396	Impact of Load Frequency Dependence on the NDZ and Performance of the SFS Islanding Detection Method. IEEE Transactions on Industrial Electronics, 2011, 58, 139-146.	5.2	100
397	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
398	Multiresonant Frequency-Locked Loop for Grid Synchronization of Power Converters Under Distorted Grid Conditions. IEEE Transactions on Industrial Electronics, 2011, 58, 127-138.	5.2	890
399	Robust and Fast Three-Phase PLL Tracking System. IEEE Transactions on Industrial Electronics, 2011, 58, 221-231.	5.2	107
400	Gain-Scheduled ${cal H}_{infty}$ Control for WECS via LMI Techniques and Parametrically Dependent Feedback Part II: Controller Design and Implementation. IEEE Transactions on Industrial Electronics, 2011, 58, 57-65.	5.2	63

#	Article	IF	Citations
401	A Robust Control Scheme for Grid-Connected Voltage-Source Inverters. IEEE Transactions on Industrial Electronics, 2011, 58, 202-212.	5.2	344
402	A Novel Hardware-Based All-Digital Phase-Locked Loop Applied to Grid-Connected Power Converters. IEEE Transactions on Industrial Electronics, 2011, 58, 1737-1745.	5.2	47
403	Reliability Estimation of Three Single-Phase Topologies in Grid-Connected PV Systems. IEEE Transactions on Industrial Electronics, 2011, 58, 2683-2689.	5.2	108
404	Filter-Based Active Damping of Voltage Source Converters With LCL Filter. IEEE Transactions on Industrial Electronics, 2011, 58, 3623-3633.	5.2	545
405	An Adaptive Robust Predictive Current Control for Three-Phase Grid-Connected Inverters. IEEE Transactions on Industrial Electronics, 2011, 58, 3537-3546.	5.2	151
406	A Novel Approach in Studying the Effects of Subharmonics on Ultrahigh-Speed AC Motor Drives. IEEE Transactions on Industrial Electronics, 2011, 58, 1274-1281.	5.2	47
407	Sensorless Model Predictive Direct Current Control Using Novel Second-Order PLL Observer for PMSM Drive Systems. IEEE Transactions on Industrial Electronics, 2011, 58, 4087-4095.	5.2	120
408	Optimal Coordination of Energy Resources With a Two-Stage Online Active Management. IEEE Transactions on Industrial Electronics, 2011, 58, 4526-4537.	5.2	118
409	Uninterruptible Power Supplies. The Electrical Engineering Handbook, 2011, , 1-22.	0.2	1
410	Synchronization of a Single-Phase Photovoltaic Generator With the Low-Voltage Utility Grid. , 2011, , .		1
411	A review on islanding operation and control for distribution network connected with small hydro power plant. Renewable and Sustainable Energy Reviews, 2011, 15, 3952-3962.	8.2	75
412	Bit-stream implementation of a phase-locked loop. IET Power Electronics, 2011, 4, 11.	1.5	5
413	Improved control strategy for stand-alone distributed generation system under unbalanced and non-linear loads. IET Renewable Power Generation, 2011, 5, 323.	1.7	47
414	Power Management of Inverter Interfaced Autonomous Microgrid Based on Virtual Frequency-Voltage Frame. IEEE Transactions on Smart Grid, 2011, 2, 30-40.	6.2	352
415	Hierarchical Control System for Robust Microgrid Operation and Seamless Mode Transfer in Active Distribution Systems. IEEE Transactions on Smart Grid, 2011, 2, 352-362.	6.2	289
416	A Control Design Approach for Three-Phase Grid-Connected Renewable Energy Resources. IEEE Transactions on Sustainable Energy, 2011, 2, 423-432.	5.9	76
417	Modelling UK domestic energy and carbon emissions: an agent-based approach. Energy and Buildings, 2011, 43, 2602-2612.	3.1	51
418	Optimization with constraints for excitation control in synchronous generators. Energy, 2011, 36, 5366-5373.	4.5	13

#	Article	IF	Citations
419	Modulation for Three-Phase Transformerless Z-Source Inverter to Reduce Leakage Currents in Photovoltaic Systems. IEEE Transactions on Industrial Electronics, 2011, 58, 5385-5395.	5.2	150
420	Power control in three-phase grid-connected current-source boost inverter. , 2011, , .		7
421	Non-linear load compensation in Fuel Cell grid interfaced system using active power filter. , 2011, , .		6
422	A new modular multilevel converter with integrated energy storage. , 2011, , .		103
423	Single-Phase Inverter Control Techniques for Interfacing Renewable Energy Sources With Microgridâ€"Part I: Parallel-Connected Inverter Topology With Active and Reactive Power Flow Control Along With Grid Current Shaping. IEEE Transactions on Power Electronics, 2011, 26, 717-731.	5.4	181
424	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
425	Unbalanced Three-Phase Optimal Power Flow for Smart Grids. IEEE Transactions on Industrial Electronics, 2011, 58, 4504-4513.	5.2	138
426	Coherent Swing Instability of Power Grids. Journal of Nonlinear Science, 2011, 21, 403-439.	1.0	77
427	A pre-filter based PLL for three-phase grid connected applications. Electric Power Systems Research, 2011, 81, 129-137.	2.1	28
428	Real time test benchmark design for photovoltaic grid-connected control systems. Electric Power Systems Research, 2011, 81, 907-914.	2.1	15
429	Voltage regulation in distribution networks in the presence of distributed generation: A voltage set-point reconfiguration approach. Electric Power Systems Research, 2011, 81, 25-34.	2.1	41
430	Aggregate load-frequency control of a wind-hydro autonomous microgrid. Renewable Energy, 2011, 36, 3345-3354.	4.3	60
431	A grid-connected hybrid cascaded H-bridge inverter. , 2011, , .		2
432	Power flow optimization for grid connected inverter using evolutionary algorithm and additional control loop. , 2011, , .		3
433	Analysis and design of a control approach for a boost converter with voltage multiplier cell. , 2011, , .		2
434	New reactive power control concept for converter based renewable energy sources. , 2011, , .		3
435	An efficient CORDIC arithmetic unit for 3-phase voltage grid synchronization. , 2011, , .		1
436	A laboratory grid simulator based on three-phase four-leg inverter: Design and implementation. , 2011, , .		13

#	Article	IF	Citations
437	Active and reactive power control of Proton Electrolyte Membrane Fuel Cell based Distributed Generation System. , 2011, , .		0
438	A new PLL system using full order observer and PLL system modeling in a single phase grid-connected inverter. , 2011, , .		7
439	Voltage feed-forward performance in stationary reference frame controllers for wind power applications. , 2011, , .		4
440	A real-time harmonic monitoring aimed at improving smart grid power quality. , 2011, , .		18
441	Nonlinear model control of DC/AC voltage converter of an isolated three phase power network. , 2011, , .		0
442	Three-phase harmonic detection methods for grid-connected converters. , 2011, , .		5
443	Direct Decoupled Synchronization Method for power converters under grid disturbances. , 2011, , .		2
444	Inverter synchronization control with Internal Model Principle. , 2011, , .		3
445	High performance hybrid cascaded inverter for renewable energy system. , 2011, , .		5
446	FPGA-based decoupled double synchronous reference frame PLL for active power filters. , 2011, , .		9
447	Frequency domain identification of the utility grid parameters for distributed power generation systems. , 2011, , .		5
448	Modeling and Control of Grid Side Converter in Wind Power Generation System Based on Synchronous VFDPC with PLL. Applied Mechanics and Materials, 0, 52-54, 1917-1922.	0.2	0
449	Modeling of SVM Diode Clamping Three-Level Inverter Connected to Grid. Advanced Materials Research, 2011, 267, 963-968.	0.3	0
450	Quasi Resonant Direct Power Control of Three-Phase Grid-Connected Inverters in Distributed Generation Systems. Applied Mechanics and Materials, 2011, 48-49, 863-867.	0.2	0
451	The Variable Speed Direct Drive Permanent Magnet Synchronous Wind Power System Used on Matrix Converter. Advanced Materials Research, 0, 383-390, 7569-7575.	0.3	0
452	Adaptive Hysteresis Band Current Control (AHB) with PLL of Grid Side Converter-Based Wind Power Generation System. Applied Mechanics and Materials, 0, 52-54, 1911-1916.	0.2	0
453	Flexible reference frame orientation of Virtual Flux-based Dual Frame Current controllers for operation in weak grids. , 2011, , .		8
454	Performance analysis of IES journals using internet and text processing robots. , 2011, , .		0

#	Article	IF	Citations
455	Fault ride through control with voltage compensation capability for utility interactive inverter with critical load. , 2011, , .		6
456	A full study of a PHEV charging facility based on global optimization and real-time simulation. , 2011, , .		6
457	Modeling and simulation of new configuration of dynamic voltage restorer for power quality improvement. Simulation, 2011, 87, 351-359.	1.1	1
458	Coordinated State-of-Charge Control Strategy for Microgrid during Islanded Operation. Journal of Electrical Engineering and Technology, 2012, 7, 824-833.	1.2	25
459	Transient Analysis of Large Scale PV Systems with Floating DC Section. Energies, 2012, 5, 3736-3752.	1.6	17
460	Modelling the effect of non-ideal load in three-phase converter dynamics. Electronics Letters, 2012, 48, 402.	0.5	9
461	Guaranteeing global synchronization in networks with stochastic interactions. New Journal of Physics, 2012, 14, 073031.	1.2	52
462	MicroGrids Operation and Control under Emergency Conditions. Power Systems, 2012, , 351-399.	0.3	2
463	Design considerations for rural modular microgrids. , 2012, , .		12
464	Supply frequency tracking in resistance-based induction motor rotor temperature estimation. , 2012, , .		0
465	Methods for stability analysis of unbalanced three-phase systems. , 2012, , .		14
466	New Three-Phase Phase-Locked-Loop Method Deployed on Software Defined Instrumentation Platform. , 2012, , .		0
467	PR-controller in a 2MW grid side windpower converter. , 2012, , .		4
468	Auto-synchronization of LC filter based front-end converter with parallel inverters based weak distorted island grid using voltage injection. , 2012, , .		1
469	A grid voltage sensor-less operational approach of interconnecting distributed generating source based inverter to unbalanced generalized three-phase grid together with local load at PCC. , 2012, , .		0
470	Multifunctional shunt compensator for power quality and power flow control for wind generator directly connected to the grid. , 2012, , .		2
471	Parallel DC/AC Converters under Connection/Disconnection of Power Modules. , 2012, , .		0
472	Balancing of instantaneous power flow in local area power network with Tellegen's theorem. , 2012, , .		3

#	Article	IF	Citations
473	A resonant controller with robust features for digital implementations at low sampling frequency. , 2012, , .		6
474	Bibliometric analysis of power grid research: Identifying knowledge domain. , 2012, , .		0
475	Using the grid-side converters of renewable energies for ancillary services. , 2012, , .		1
476	Synchronization of a renewable energy inverter with the grid. Journal of Renewable and Sustainable Energy, 2012, 4, .	0.8	11
477	High-speed grid connected induction generator supported by magnetic bearings. , 2012, , .		2
478	A three phase reference current generator for power electronic converters under distorted utility conditions. , 2012, , .		11
479	Sinusoid-locked loops based on the principles of synchronous machines. , 2012, , .		13
480	Investigation of Switching Transients between Operation Modes for Inverter-Based Microgrid. Advanced Materials Research, 2012, 433-440, 7381-7386.	0.3	2
481	A robust predictive dual-loop control strategy for grid-connected photovoltaic generation system. , 2012, , .		3
482	Resolution-Level-Controlled WM Inverter for PMG-Based Wind Energy Conversion System. IEEE Transactions on Industry Applications, 2012, 48, 750-763.	3.3	33
483	Distribution Loss Minimization by Token Ring Control of Power Electronic Interfaces in Residential Microgrids. IEEE Transactions on Industrial Electronics, 2012, 59, 3817-3826.	5.2	74
484	Digital Filters for Fast Harmonic Sequence Component Separation of Unbalanced and Distorted Three-Phase Signals. IEEE Transactions on Industrial Electronics, 2012, 59, 3847-3859.	5.2	101
485	Voltage-Sensor-Less Synchronization to Unbalanced Grids by Frequency-Adaptive Virtual Flux Estimation. IEEE Transactions on Industrial Electronics, 2012, 59, 2910-2923.	5.2	99
486	Flatness-Based Control of Three-Phase Inverter With Output LC Filter. IEEE Transactions on Industrial Electronics, 2012, 59, 2890-2897.	5.2	76
487	Adaptive Current Control for Grid-Connected Converters With LCL Filter. IEEE Transactions on Industrial Electronics, 2012, 59, 4681-4693.	5.2	167
488	Impedance shaping of three-phase grid-parallel voltage-source converters. , 2012, , .		56
489	Full Feedforward of Grid Voltage for Discrete State Feedback Controlled Grid-Connected Inverter With LCL Filter. IEEE Transactions on Power Electronics, 2012, 27, 4234-4247.	5.4	171
490	Virtual-Flux-Based Voltage-Sensor-Less Power Control for Unbalanced Grid Conditions. IEEE Transactions on Power Electronics, 2012, 27, 4071-4087.	5.4	101

#	Article	IF	Citations
491	Grid-Tie Control of Cascade Dual-Buck Inverter With Wide-Range Power Flow Capability for Renewable Energy Applications. IEEE Transactions on Power Electronics, 2012, 27, 1839-1849.	5.4	47
492	Lyapunov-Based Control Scheme for Single-Phase Grid-Connected PV Central Inverters. IEEE Transactions on Control Systems Technology, 2012, 20, 520-529.	3.2	101
493	Smart — STATCOM control strategy implementation in wind power plants. , 2012, , .		4
494	Frequency Adaptive Discrete Filter for Grid Synchronization Under Distorted Voltages. IEEE Transactions on Power Electronics, 2012, 27, 3584-3594.	5.4	41
495	Different approaches of stationary reference frames saturators. , 2012, , .		7
496	Applying Adaptive Notch Filters to Hybrid Active Var Compensator. , 2012, , .		1
497	Modeling of an electric vehicle charging station for fast DC charging. , 2012, , .		91
498	A new hybrid PLL for interconnecting Renewable Energy Systems to the grid. , 2012, , .		7
499	Indirect Current Control for Seamless Transfer of Three-Phase Utility Interactive Inverters. IEEE Transactions on Power Electronics, 2012, 27, 773-781.	5.4	105
500	Three-Phase Dual-Buck Inverter With Unified Pulsewidth Modulation. IEEE Transactions on Power Electronics, 2012, 27, 1159-1167.	5.4	106
501	Phase-locked loop-less current controller for grid-connected photovoltaic systems. IET Renewable Power Generation, 2012, 6, 400-407.	1.7	10
502	Research on detection algorithm of voltage sag characteristics. , 2012, , .		4
503	Design and implementation of a chattering-free non-linear sliding-mode controller for interior permanent magnet synchronous drive systems. IET Electric Power Applications, 2012, 6, 332.	1.1	17
505	Analysis and control of grid connected wind energy system with DSTATCOM. , 2012, , .		0
506	Optimal system control of a back-to-back power converter for wind grid-connected converter. , 2012, , .		12
507	Coordinated reactive power control for static synchronous compensators under unbalanced voltage sags. , 2012, , .		9
508	A Method for Real-Time Grid Signals Analysis. , 2012, , .		0
509	Fuel cell connected to grid through inverter. , 2012, , .		6

#	Article	IF	Citations
510	A seamless transfer strategy of islanded and grid-connected mode switching for microgrid based on droop control. , 2012, , .		35
511	Robust ℌ<inf>∞</inf> control for grid connected PWM inverters with LCL filters. , 2012, , .		22
512	Coordinated Control Research of Grid-Connected Two-Stage Power Converter System. , 2012, , .		0
513	The low-cost single-stage grid connected photovoltaic system with a modified MPPT method. , 2012, , .		2
514	Control of grid-side inverter for isolated wind-diesel power plants using variable speed squirrel cage induction generator. , 2012, , .		3
515	An optimal method for designing the controllers used in grid-connected PV systems. , 2012, , .		2
516	Dynamical robustness in complex networks: the crucial role of low-degree nodes. Scientific Reports, 2012, 2, 232.	1.6	101
517	Power sharing in distributed power generation system. , 2012, , .		2
518	Analysis of chinese photovoltaic generation system low voltage ride through characters. , 2012, , .		2
519	Power delivery to a current source and reduction of voltage harmonics for inverters. , 2012, , .		0
520	Design of injected grid current regulator and capacitor-current-feedback active-damping for LCL-type grid-connected inverter. , 2012, , .		48
521	Implementation of DQ domain control in DSP and FPGA. , 2012, , .		8
522	Grid coupling of cage-rotor induction generator through BTB-VSC with critical load support at grid islanding. , 2012, , .		3
523	Precise modeling and analysis of DQ-frame current controller for high power converters with low pulse ratio. , 2012, , .		45
524	Autonomous control of electric vehicles in grid-connected and islanded modes. , 2012, , .		3
525	Benchmarking of grid fault modes in single-phase grid-connected photovoltaic systems. , 2012, , .		11
526	A cascade control scheme for a grid connected Battery Energy Storage System (BESS). , 2012, , .		13
527	Power electronics for renewable energy systems: Wind turbine and photovoltaic systems. , 2012, , .		18

#	Article	IF	Citations
528	A synchronous reference frame intelligent structure for power control of distributed generators in a microgrid. , 2012, , .		3
529	Improved grid synchronization algorithm for DG system using DSRF PLL under grid disturbances. , 2012, , .		4
530	A novel anti-islanding detection algorithm for three-phase distributed generation systems. , 2012, , .		6
531	Dual bi-directional converter control for wind-solar-hydro system in grid connected and islanded operation. , 2012, , .		0
532	Average current-mode control of Boost converters with bidirectional power transfer capabilities. , 2012, , .		4
533	Capacitive-coupled grid-connected inverter with active power injection ability. , 2012, , .		7
534	Predictive control based on analytic model for PV grid-connected inverters. , 2012, , .		2
535	Control strategies for single-phase grid integration of small-scale renewable energy sources: A review. Renewable and Sustainable Energy Reviews, 2012, 16, 4982-4993.	8.2	121
536	A New Universal Isolated Converter for Grid Connection. IEEE Transactions on Industry Applications, 2012, 48, 685-696.	3.3	21
537	Coordinated control of MTDC-based microgrid with wind turbines. , 2012, , .		2
538	Improved droop control for parallel inverters in microgrids. , 2012, , .		1
539	Current Controller Based on Reduced Order Generalized Integrators for Distributed Generation Systems. IEEE Transactions on Industrial Electronics, 2012, 59, 2898-2909.	5.2	164
540	Secondary control for reactive power sharing and voltage amplitude restoration in droop-controlled islanded microgrids. , 2012, , .		29
541	Voltage synchronization scheme based on zero crossing detection for parallel connected inverters in AC microgrids. , 2012, , .		8
542	A simple experimental prediction model of photovoltaic power for DC microgrid. , 2012, , .		9
543	An enhanced three-phase battery energy storage system for frequency control in microgrids. , 2012, , .		5
544	A Flexible Harmonic Control Approach Through Voltage-Controlled DGâ€“Grid Interfacing Converters. IEEE Transactions on Industrial Electronics, 2012, 59, 444-455.	5.2	352
545	Constrained Potential Functionâ€”Based Control of Microgrids for Improved Dynamic Performance. IEEE Transactions on Smart Grid, 2012, 3, 1885-1892.	6.2	54

#	Article	IF	Citations
546	Solar photovoltaic power conversion using modular multilevel converter. , 2012, , .		19
547	Power Electronics Converters for Wind Turbine Systems. IEEE Transactions on Industry Applications, 2012, 48, 708-719.	3.3	737
548	Stability improvement of grid-connect inverter using combination of passive and active damping. , 2012, , .		1
549	An LLCL Power Filter for Single-Phase Grid-Tied Inverter. IEEE Transactions on Power Electronics, 2012, 27, 782-789.	5.4	428
550	Control Scheme for Photovoltaic Three-Phase Inverters to Minimize Peak Currents During Unbalanced Grid-Voltage Sags. IEEE Transactions on Power Electronics, 2012, 27, 4262-4271.	5.4	210
551	Enhanced Decoupled Double Synchronous Reference Frame Current Controller for Unbalanced Grid-Voltage Conditions. IEEE Transactions on Power Electronics, 2012, 27, 3934-3943.	5.4	258
552	Control Scheme of Three-Level NPC Inverter for Integration of Renewable Energy Resources Into AC Grid. IEEE Systems Journal, 2012, 6, 242-253.	2.9	83
553	Secondary Control Scheme for Voltage Unbalance Compensation in an Islanded Droop-Controlled Microgrid. IEEE Transactions on Smart Grid, 2012, 3, 797-807.	6.2	425
554	Eliminating Leakage Currents in Neutral Point Clamped Inverters for Photovoltaic Systems. IEEE Transactions on Industrial Electronics, 2012, 59, 435-443.	5.2	208
555	DC Load and Batteries Control Limitations for Photovoltaic Systems. Experimental Validation. IEEE Transactions on Power Electronics, 2012, 27, 4030-4038.	5.4	56
556	A Power Quality Compensator With DG Interface Capability Using Repetitive Control. IEEE Transactions on Energy Conversion, 2012, 27, 213-219.	3.7	42
557	An MPC method based on a hybrid model of a three-phase inverter with output LC- filter. , 2012, , .		1
558	The frequency-independent control method for distributed generation systems. Applied Energy, 2012, 96, 272-280.	5.1	19
559	Photovoltaic based distribution static compensator for power quality improvement. International Journal of Electrical Power and Energy Systems, 2012, 42, 685-692.	3.3	57
560	Sensorless MPPT Fuzzy Controller for DFIG Wind Turbine. Energy Procedia, 2012, 18, 339-348.	1.8	19
561	A Stationary Reference Frame Grid Synchronization System for Three-Phase Grid-Connected Power Converters Under Adverse Grid Conditions. IEEE Transactions on Power Electronics, 2012, 27, 99-112.	5.4	628
562	Robust Line-Voltage Sensorless Control and Synchronization of LCL -Filtered Distributed Generation Inverters for High Power Quality Grid Connection. IEEE Transactions on Power Electronics, 2012, 27, 87-98.	5.4	108
563	Secondary control for reactive power sharing in droop-controlled islanded microgrids. , 2012, , .		41

#	Article	IF	Citations
564	Design and control of a grid-connected three-phase 3-level NPC inverter for Building Integrated Photovoltaic systems. , 2012, , .		23
565	An Adaptive Synchronous-Reference-Frame Phase-Locked Loop for Power Quality Improvement in a Polluted Utility Grid. IEEE Transactions on Industrial Electronics, 2012, 59, 2718-2731.	5.2	247
566	A Resonant Controller With High Structural Robustness for Fixed-Point Digital Implementations. IEEE Transactions on Power Electronics, 2012, 27, 3352-3362.	5.4	69
567	A synchronization technique for microgrid reclosing after islanding operation. , 2012, , .		7
568	Fast grid synchronization technique based on a multiple cascaded general integrator scheme for distributed generation inverters. , 2012, , .		12
569	Control of a three-level converter for power quality improvement in wind power plants. , 2012, , .		4
570	Soft synchronization of dispersed generators to micro grids for smart grid applications. , 2012, , .		9
571	Phase-locked loop for AC systems: analyses and comparisons. , 2012, , .		20
572	Intelligent DC Microgrid With Smart Grid Communications: Control Strategy Consideration and Design. IEEE Transactions on Smart Grid, 2012, 3, 2148-2156.	6.2	222
573	A selected harmonics compensation method with Distributed Energy Resources. , 2012, , .		0
574	Grid tie inverter control for rooftop photovoltaic system. , 2012, , .		6
575	Modeling and Control of Fuel Cells as Distributed Generators in Smart Grids. Power Systems, 2012, , 625-653.	0.3	0
576	Parameters determination of grid connected interior permanent magnet synchronous generator. , 2012, , .		3
577	The effect of load condition on stability in isolated Microgrids. , 2012, , .		3
578	Advanced structures for grid synchronization of power converters in distributed generation applications. , 2012, , .		10
579	Multilink DC transmission for offshore Wind Power integration. , 2012, , .		7
580	Non linear load sharing between a distributed generation sources and utility grid. , 2012, , .		3
581	Variable Sampling Period Filter PLL for Distorted Three-Phase Systems. IEEE Transactions on Power Electronics, 2012, 27, 321-330.	5.4	136

#	Article	IF	Citations
582	Synchronization of a Single-phase Photovoltaic Generator With the Low-Voltage Utility Grid. Journal of Solar Energy Engineering, Transactions of the ASME, 2012, 134, .	1.1	9
583	Control of bidirectional DC/AC converter for redox flow battery energy storage system. , 2012, , .		0
584	Resonance propagation of parallel-operated DC-AC converters with LCL filters. , 2012, , .		17
585	Control of Grid Connected Inverter system for sinusoidal current injection with improved performance. , 2012, , .		5
586	Real-time compression of measurements in distribution grids. , 2012, , .		3
587	Control for grid-connected and stand-alone operations of three-phase grid-connected inverter. , 2012, , .		9
588	d-q axis decoupling parameter identification strategy for the grid-connected inverter of photovoltaic generation system. , 2012, , .		5
589	Implementation and control of a bidirectional high-gain transformer-less standalone inverter. , 2012, , .		19
590	Synchronous reference frame based current controller with SPWM switching strategy for DSTATCOM applications. , 2012, , .		18
591	Improving the power quality performance for distributed power generation. , 2012, , .		3
592	Cooperative control with virtual selective harmonic capacitance for harmonic voltage compensation in islanded microgrids. , 2012, , .		13
593	Frequency Adaptive PLL for Polluted Single-Phase Grids. IEEE Transactions on Power Electronics, 2012, 27, 2396-2404.	5.4	94
594	Improved design and control of proportional resonant controller for three-phase voltage source inverter. , 2012, , .		13
595	Frequency behavior and its stability of grid-interface converter in distributed generation systems. , 2012, , .		68
596	Synthesis of active damping for grid-connected inverters with an LCL filter. , 2012, , .		11
597	Magnetic integration of an LCL filter for the single-phase grid-connected inverter. , 2012, , .		5
598	A Vector-controlled Single-phase Voltage Source Inverter Based Grid Interface Suitable for Variable Frequency Operation in Autonomous Microgrids. Electric Power Components and Systems, 2012, 40, 1266-1284.	1.0	11
599	Instantaneous current control for the three-phase dual-active bridge DC-DC converter. , 2012, , .		18

#	Article	IF	Citations
600	Comprehensive modeling and control strategies for a three-phase dual-active bridge. , 2012, , .		35
601	Robust Predictive Current Controller Based on a Disturbance Estimator in a Three-Phase Grid-Connected Inverter. IEEE Transactions on Power Electronics, 2012, 27, 276-283.	5.4	125
602	An efficient constant current controller for PV Solar Power Generator integrated with the grid. , 2012, , .		3
603	Microgrid wireless energy management with energy storage system. , 2012, , .		15
604	A novel RPV (reactive-power-variation) anti-islanding method based on adapted reactive power perturbation. , 2012, , .		2
605	Modeling and control system design for an integrated solar generation and energy storage system with a ride-through capability. , 2012, , .		23
606	Integrated three-phase transformerless PV inverter. , 2012, , .		0
607	Transformerless photovoltaic inverter system based on multilevel voltage. , 2012, , .		0
608	Low cost transformer isolated boost half-bridge micro-inverter for single-phase grid-connected photovoltaic system. , 2012, , .		37
609	Cascade dual-boost/buck active-front-end converter for intelligent universal transformer. IEEE Transactions on Industrial Electronics, 2012, 59, 4671-4680.	5.2	60
610	Cascade Dual Buck Inverter With Phase-Shift Control. IEEE Transactions on Power Electronics, 2012, 27, 2067-2077.	5.4	84
611	A Utility-Interfaced Phase-Modulated High-Frequency Isolated Dual LCL DC/AC Converter. IEEE Transactions on Industrial Electronics, 2012, 59, 1008-1019.	5.2	45
612	Direct Power Control for various topologies of three phase grid-connected Voltage Sources Converters using Sliding Mode Control. , 2012, , .		7
613	Coordinated state-of-charge control strategy for microgrid during islanded operation. , 2012, , .		11
614	Inverter modelling techniques for protection studies. , 2012, , .		9
615	Unified compensation control of a hybrid energy storage system for enhancing power quality and operation efficiency in a diesel and wind-turbine based stand-alone microgrid. , 2012, , .		7
616	Analysis and optimization of the battery energy storage systems for frequency control in autonomous microgrids, by means of hardware-in-the-loop simulations. , 2012, , .		13
617	Synchronization in single-phase grid-connected photovoltaic systems under grid faults. , 2012, , .		44

#	Article	IF	Citations
618	Numerical study of transient stability criteria for an inverter-based distributed generator. , 2012, , .		7
619	Self-Organized Synchronization in Decentralized Power Grids. Physical Review Letters, 2012, 109, 064101.	2.9	389
620	Intelligent control of doublyâ€fed induction generator systems using PIDNNs. Asian Journal of Control, 2012, 14, 768-783.	1.9	10
621	Control of Power Converters in AC Microgrids. IEEE Transactions on Power Electronics, 2012, 27, 4734-4749.	5.4	2,759
622	A three phase PLL with a dynamic feed forward frequency estimator for synchronization of grid connected converters under wide frequency variations. International Journal of Electrical Power and Energy Systems, 2012, 41, 63-70.	3.3	49
623	New control method of a robust NPC converter for renewable energy sources grid connection. Electric Power Systems Research, 2012, 88, 52-63.	2.1	18
624	Application of Wavelet transform in denoising synchronising signal in line synchronised power electronics converters. IET Power Electronics, 2012, 5, 281-292.	1.5	12
625	Investigation and evaluation of active frequency drifting methods in multiple grid-connected inverters. IET Power Electronics, 2012, 5, 485.	1.5	24
626	A sensorless control method for variable-speed small wind turbines. Renewable Energy, 2012, 43, 256-266.	4.3	36
627	A multifunction control scheme for current harmonic elimination and voltage sag mitigation using a three phase three level flying capacitor inverter. Simulation Modelling Practice and Theory, 2012, 24, 15-34.	2.2	10
628	Interactive Distributed Generation Interface for Flexible Micro-Grid Operation in Smart Distribution Systems. IEEE Transactions on Sustainable Energy, 2012, 3, 295-305.	5.9	77
629	Study on Global Optimization and Control Strategy Development for a PHEV Charging Facility. IEEE Transactions on Vehicular Technology, 2012, 61, 2431-2441.	3.9	41
630	Phase-Locked Loop Based on Selective Harmonics Elimination for Utility Applications. IEEE Transactions on Power Electronics, 2013, 28, 144-153.	5.4	43
631	Fault Current Contribution of Medium Voltage Inverter and Doubly-Fed Induction-Machine-Based Flywheel Energy Storage System. IEEE Transactions on Sustainable Energy, 2013, 4, 58-67.	5.9	44
632	Benchmarking of Grid Fault Modes in Single-Phase Grid-Connected Photovoltaic Systems. IEEE Transactions on Industry Applications, 2013, 49, 2167-2176.	3.3	207
633	A Cascade Multilevel Frequency Changing Converter for High-Power Applications. IEEE Transactions on Industrial Electronics, 2013, 60, 2118-2130.	5.2	42
634	Evaluations of current control in weak grid case for gridâ€connected LCLâ€filtered inverter. IET Power Electronics, 2013, 6, 227-234.	1.5	143
635	A Novel RPV (Reactive-Power-Variation) Antiislanding Method Based on Adapted Reactive Power Perturbation. IEEE Transactions on Power Electronics, 2013, 28, 4998-5012.	5.4	56

#	Article	IF	Citations
636	Single phase utility interactive Switched Boost Inverter for renewable energy based residential power applications. , 2013, , .		2
637	Small-Signal Modeling of Digitally Controlled Grid-Connected Inverters With LCL Filters. IEEE Transactions on Industrial Electronics, 2013, 60, 3752-3765.	5.2	100
638	An explicit approximate Iâ€“V characteristic model of a solar cell based on padÃ© approximants. Solar Energy, 2013, 92, 147-159.	2.9	72
639	Harmonics suppression for single-phase grid-connected PV systems in different operation modes. , 2013, , .		20
640	Power weakening control of the photovoltaic-battery system for seamless energy transfer in microgrids. , 2013, , .		20
641	A UNIFIED "SCALAR" DISCRETE-TIME MODEL FOR ENHANCING BIFURCATION PREDICTION IN DIGITALLY CONTROLLED H-BRIDGE GRID-CONNECTED INVERTER. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2013, 23, 1350126.	0.7	3
642	Intelligent controlled threeâ€phase squirrelâ€cage induction generator system using wavelet fuzzy neural network for wind power. IET Renewable Power Generation, 2013, 7, 552-564.	1.7	27
643	A grid-connected PV system with LLC resonant DC-DC converter. , 2013, , .		13
644	Power quality analysis for building integrated PV and micro wind turbine in New Zealand. Energy and Buildings, 2013, 58, 302-309.	3.1	21
645	An LCL-LC power filter for grid-tied inverter. , 2013, , .		13
646	Reliability-oriented design and analysis of input capacitors in single-phase transformer-less photovoltaic inverters. , 2013, , .		26
647	Implementation of the direct power control of a doubly fed induction generator by using a Takagi-Sugeno neuro-fuzzy inference system. , 2013, , .		3
648	A three-level self-synchronizing hysteresis current regulator with constant switching frequency. , 2013, , .		2
649	Single phase transformerless semi-Z-source inverter with reduced total harmonic distortion (THD) and DC current injection. , 2013, , .		1
650	Control of single-phase islanded PV/battery streetlight cluster based on power-line signaling. , 2013, , .		5
651	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
652	An Adaptive Voltage Control Strategy of Three-Phase Inverter for Stand-Alone Distributed Generation Systems. IEEE Transactions on Industrial Electronics, 2013, 60, 5660-5672.	5.2	91
653	Improved DC-link voltage control of PMSG WECS based on feedback linearization under grid faults. , 2013, , .		4

#	Article	IF	Citations
654	Four Level Diode-Clamped Back-To-Back Converter with active DC link voltage control. , 2013, , .		5
655	DSTATCOM with LCL filter using synchronous reference frame current controller. , 2013, , .		4
656	Optimal filter design and switching loss reduction in grid connected inverter system. , 2013, , .		0
657	Sinusoidal compensator with active damping effects in grid-connected inverter with an LCL filter. , 2013, , .		2
658	LCL Filters for a grid emulator application - Comparative study of active damping techniques. , 2013, , .		2
659	A fuzzy control strategy for power smoothing and grid dynamic response enrichment of a gridâ€connected wind energy conversion system. Wind Energy, 2014, 17, 1347-1363.	1.9	11
660	Reduction of positive feedback gain on Anti-islanding method based on frequency. , 2013, , .		0
661	Nine IGBTs based UPFC topology and control for renewable power integration. , 2013, , .		6
662	A New Hybrid PLL for Interconnecting Renewable Energy Systems to the Grid. IEEE Transactions on Industry Applications, 2013, 49, 2709-2719.	3.3	114
663	Smart Grids. Annual Review of Environment and Resources, 2013, 38, 201-226.	5.6	52
664	Grid-synchronization modeling and its stability analysis for multi-paralleled three-phase inverter systems. , 2013, , .		40
665	Energy storage systems impact on the shortâ€term frequency stability of distributed autonomous microgrids, an analysis using aggregate models. IET Renewable Power Generation, 2013, 7, 531-539.	1.7	66
666	Control of hybrid energy systems micro-grid. , 2013, , .		7
667	Power electronics - Key technology for renewable energy systems - Status and future. , 2013, , .		46
668	A nonlinear disturbance observer based DC bus voltage control for a hybrid AC/DC microgrid. , 2013, , .		3
669	Hardware-in-the-Loop optimization of the 3-phase grid connected converter controller. , 2013, , .		7
670	Ad-Hoc Self-Organized Microgrid for Rural Electrification and Post-disaster Response. , 2013, , .		2
671	Control of Parallel-connected AC to DC Converter with Droop Technique for DC Microgrid Application. Energy Procedia, 2013, 34, 351-361.	1.8	7

#	Article	IF	Citations
672	Nonlocal failures in complex supply networks by single link additions. European Physical Journal B, 2013, 86, 1.	0.6	41
673	Threeâ€phase fourâ€leg flyingâ€capacitor multiâ€level inverterâ€based active power filter for unbalanced current operation. IET Power Electronics, 2013, 6, 153-163.	1.5	58
674	Takagiâ€“Sugenoâ€“Kang type probabilistic fuzzy neural network control for gridâ€connected LiFePO 4 battery storage system. IET Power Electronics, 2013, 6, 1029-1040.	1.5	10
675	An Improved Reactive Current Detection and Power Control Method for Single-Phase Photovoltaic Grid-Connected DG System. IEEE Transactions on Energy Conversion, 2013, 28, 823-831.	3.7	69
676	PLL performance under frequency fluctuation-compliance with standards for distributed generation connected to the grid. , 2013, , .		6
677	An adaptive Phase-Locked Loop algorithm for faster fault ride through performance of interconnected renewable energy sources. , 2013, , .		7
678	Dynamic performance analysis of potential current control strategies for grid connected applications. , 2013, , .		0
679	Current Synchronous Detection based control of grid interfaced Solar Photovoltaic power generating system. , 2013, , .		1
680	Modeling the grid synchronization induced negative-resistor-like behavior in the output impedance of a three-phase photovoltaic inverter. , 2013, , .		56
681	Control of single-phase AC to DC converter for hybrid microgrid. , 2013, , .		4
682	Multi-physics system simulation for wind turbines with permanent magnet generator and full conversion power electronics. , 2013, , .		3
683	A Unified Single- and Three-Phase Control for Grid Connected Electric Vehicles. IEEE Transactions on Smart Grid, 2013, 4, 1780-1790.	6.2	39
684	Particle filter based grid synchronization with voltage unbalance and frequency variation in smart grid. , 2013, , .		5
685	Coordinated control of battery energy storage system in a microgrid. , 2013, , .		21
686	A control strategy for inverter-interfaced microgrids under symmetrical and asymmetrical faults. , 2013, , .		5
687	Control strategy for the front-end DC-DC converter to reduce the second-order harmonic current in the two-stage inverter. , 2013, , .		4
688	Emission reduction in a micro grid including PV considering voltage profile improvement. , 2013, , .		1
689	Grid connection design and control of LCL+Trap filter based two-level VSC for wave power plant applications. , 2013, , .		2

#	Article	IF	Citations
690	Photovoltaic cell modeling and the maximum power point tracking simulation. , 2013, , .		2
691	A Grid Synchronization Method for Droop-Controlled Distributed Energy Resource Converters. IEEE Transactions on Industry Applications, 2013, 49, 954-962.	3.3	70
692	Mission profile based multi-disciplinary analysis of power modules in single-phase transformerless photovoltaic inverters. , 2013, , .		53
693	Fully distributed power routing for an ad hoc nanogrid. , 2013, , .		13
694	Effectiveness of anti-islanding schemes following a faulty recloser operation. , 2013, , .		0
695	Implementation aspects of adaptive window moving average filter applied to PLLs â€" Comparative study. , 2013, , .		3
696	Improving the voltage profile of a medium voltage grid using distributed generation units. , 2013, , .		2
697	Impedance-based stability analysis of VSC-based HVDC systems. , 2013, , .		18
698	Low voltage ride-through of single-phase transformerless photovoltaic inverters. , 2013, , .		9
699	Flexible DG interface using repetitive control. , 2013, , .		0
700	Three-state three-phase Z-source inverter for transformerless photovoltaic systems. , 2013, , .		6
701	Feedforward decoupling control method in grid-interfaced inverter. , 2013, , .		5
702	Power management in four-leg converter interfacing RES with the grid. , 2013, , .		5
703	Operation of four-leg three-level flying capacitor grid-connected converter for RES. , 2013, , .		8
704	Control of a three-stage three-phase cascaded modular power electronic transformer. , 2013, , .		21
705	Investigating 3-phase induction motor in islanded VSI-based micro grid. , 2013, , .		0
706	Fuzzy phase locked loop for three-phase power converters. , 2013, , .		8
707	Multiple Distributed Generator Placement in Primary Distribution Networks for Loss Reduction. IEEE Transactions on Industrial Electronics, 2013, 60, 1700-1708.	5.2	603

#	Article	IF	Citations
708	An Amplitude Adaptive Notch Filter for Grid Signal Processing. IEEE Transactions on Power Electronics, 2013, 28, 2638-2641.	5.4	69
709	A Novel Phase-Locked Loop Based on Frequency Detector and Initial Phase Angle Detector. IEEE Transactions on Power Electronics, 2013, 28, 4538-4549.	5.4	129
710	Location and Sizing of Distributed Generation Units for Loadabilty Enhancement in Primary Feeder. IEEE Systems Journal, 2013, 7, 797-806.	2.9	100
711	A Systematic Approach to DC-Bus Control Design in Single-Phase Grid-Connected Renewable Converters. IEEE Transactions on Power Electronics, 2013, 28, 3158-3166.	5.4	102
712	Control of Single-Phase Grid-Connected Inverters With Nonlinear Loads. IEEE Transactions on Industrial Electronics, 2013, 60, 1384-1389.	5.2	87
713	Reduction of Current Harmonic Distortion in Three-Phase Grid-Connected Photovoltaic Inverters via Resonant Current Control. IEEE Transactions on Industrial Electronics, 2013, 60, 1464-1472.	5.2	155
714	Flexible Voltage Support Control for Three-Phase Distributed Generation Inverters Under Grid Fault. IEEE Transactions on Industrial Electronics, 2013, 60, 1429-1441.	5.2	280
715	Modeling and Control of Dual-Stage High-Power Multifunctional PV System in dâ€“q â€“o Coordinate. IEEE Transactions on Industrial Electronics, 2013, 60, 1556-1570.	5.2	70
716	General aspects, hierarchical controls and droop methods in microgrids: A review. Renewable and Sustainable Energy Reviews, 2013, 17, 147-159.	8.2	265
717	Assessment and Optimization of the Transient Response of Proportional-Resonant Current Controllers for Distributed Power Generation Systems. IEEE Transactions on Industrial Electronics, 2013, 60, 1367-1383.	5.2	166
718	Three-Phase Cascaded Delayed Signal Cancellation PLL for Fast Selective Harmonic Detection. IEEE Transactions on Industrial Electronics, 2013, 60, 1452-1463.	5.2	197
719	Thermal Optimization for a HSPMG Used for Distributed Generation Systems. IEEE Transactions on Industrial Electronics, 2013, 60, 474-482.	5.2	70
720	An Improved Repetitive Control Scheme for Grid-Connected Inverter With Frequency-Adaptive Capability. IEEE Transactions on Industrial Electronics, 2013, 60, 814-823.	5.2	216
721	Joint Voltage and Phase Unbalance Detector for Three Phase Power Systems. IEEE Signal Processing Letters, 2013, 20, 11-14.	2.1	33
722	Predictive Direct Virtual Torque and Power Control of Doubly Fed Induction Generators for Fast and Smooth Grid Synchronization and Flexible Power Regulation. IEEE Transactions on Power Electronics, 2013, 28, 3182-3194.	5.4	137
723	Cascaded Currentâ€“Voltage Control to Improve the Power Quality for a Grid-Connected Inverter With a Local Load. IEEE Transactions on Industrial Electronics, 2013, 60, 1344-1355.	5.2	155
724	Modeling of Grid-connected with Permanent Magnet Synchronous Generator (PMSG) Using Voltage Vector Control. Energy Procedia, 2013, 34, 262-272.	1.8	22
725	Start-up behaviour of the Doubly-Fed Induction Generator in a wind energy conversion system. , 2013, , .		2

#	Article	IF	Citations
726	Assessment of droop-controlled islanded microgrid maximum loadability. , 2013, , .		3
727	Improved ride-through of PMSG wind turbine during symmetrical voltage dip using a magnetic amplifier. , 2013, , .		4
728	The research of reactive power control strategy for grid-connected photovoltaic plants. , 2013, , .		11
729	Introduction of storage integrated PV sytems as an enabling technology for smart energy grids. , 2013, , .		2
730	Control, operation and power sharing among parallel converter-interfaced DERs in a microgrid in the presence of unbalanced and harmonic loads. , 2013, , .		16
731	A new optimized pole placement strategy of grid-connected inverter with LCL-filter based on state variable feedback and state observer. , 2013, , .		7
732	Synchronization of grid-connected renewable energy sources under highly distorted voltages and unbalanced grid faults. , 2013, , .		26
733	FPGA-based implementation of an adaptive notch filter used for grid synchronization of grid-connected converters. , 2013, , .		13
734	Decoupled Control Strategy of Grid Interactive Inverter System with Optimal LCL Filter Design. International Journal of Emerging Electric Power Systems, 2013, 14, 477-486.	0.6	2
735	A new control strategy for grid interfacing inverter in wind energy applications. , 2013, , .		0
736	Universal wind turbine working in grid-connected and island operating modes. Mathematics and Computers in Simulation, 2013, 91, 41-51.	2.4	7
737	Review of primary control strategies for islanded microgrids with power-electronic interfaces. Renewable and Sustainable Energy Reviews, 2013, 19, 613-628.	8.2	202
738	Voltage-Based Droop Control of Renewables to Avoid Onâ€“Off Oscillations Caused by Overvoltages. IEEE Transactions on Power Delivery, 2013, 28, 845-854.	2.9	39
739	Control Scheme With Voltage Support Capability for Distributed Generation Inverters Under Voltage Sags. IEEE Transactions on Power Electronics, 2013, 28, 5252-5262.	5.4	140
740	A Control Technique for Integration of DG Units to the Electrical Networks. IEEE Transactions on Industrial Electronics, 2013, 60, 2881-2893.	5.2	55
741	A Single-Phase Photovoltaic Inverter Topology With a Series-Connected Energy Buffer. IEEE Transactions on Power Electronics, 2013, 28, 4603-4611.	5.4	68
742	Overview of Control Systems for the Operation of DFIGs in Wind Energy Applications. IEEE Transactions on Industrial Electronics, 2013, 60, 2776-2798.	5.2	576
743	Fault Detection and Isolation in Low-Voltage DC-Bus Microgrid System. IEEE Transactions on Power Delivery, 2013, 28, 779-787.	2.9	296

#	Article	IF	Citations
744	Selective compensation of voltage harmonics in grid-connected microgrids. Mathematics and Computers in Simulation, 2013, 91, 211-228.	2.4	42
745	Active Power Filter Control Strategy With Implicit Closed-Loop Current Control and Resonant Controller. IEEE Transactions on Industrial Electronics, 2013, 60, 2721-2730.	5.2	130
746	An Adaptive Digital Control Technique for Improved Performance of Grid Connected Inverters. IEEE Transactions on Industrial Informatics, 2013, 9, 708-718.	7.2	29
747	A New Phase-Locked Loop System for Three-Phase Applications. IEEE Transactions on Power Electronics, 2013, 28, 1208-1218.	5.4	73
748	An Improved Islanding Detection Method for a Grid-Connected Inverter With Intermittent Bilateral Reactive Power Variation. IEEE Transactions on Power Electronics, 2013, 28, 268-278.	5.4	88
749	Operation of a Three-Phase Power Converter Connected to a Distribution System. IEEE Transactions on Industrial Electronics, 2013, 60, 1810-1818.	5.2	33
750	Building Integrated Photovoltaic System With Energy Storage and Smart Grid Communication. IEEE Transactions on Industrial Electronics, 2013, 60, 1607-1618.	5.2	269
751	Reactive Power Control of Permanent-Magnet Synchronous Wind Generator With Matrix Converter. IEEE Transactions on Power Delivery, 2013, 28, 575-584.	2.9	62
752	Model Based Adaptive Direct Power Control for Three-Level NPC Converters. IEEE Transactions on Industrial Informatics, 2013, 9, 1148-1157.	7.2	85
753	Small Signal Stability Based Fuzzy Potential Function Proposal for Secondary Frequency and Voltage Control of Islanded Microgrid. Electric Power Components and Systems, 2013, 41, 485-499.	1.0	34
754	Model Predictive Direct Power Control of a PWM Rectifier With Duty Cycle Optimization. IEEE Transactions on Power Electronics, 2013, 28, 5343-5351.	5.4	244
755	Control of Direct-drive Permanent-magnet Wind Power System Grid-Connected Using Back-to-back PWM Converter. , 2013, , .		8
756	Voltage and Reactive Power Impacts on Successful Operation of Islanded Microgrids. IEEE Transactions on Power Systems, 2013, 28, 1716-1727.	4.6	49
757	Design-Oriented Study of Advanced Synchronous Reference Frame Phase-Locked Loops. IEEE Transactions on Power Electronics, 2013, 28, 765-778.	5.4	419
758	Full-Feedforward Schemes of Grid Voltages for a Three-Phase LCL-Type Grid-Connected Inverter. IEEE Transactions on Industrial Electronics, 2013, 60, 2237-2250.	5.2	175
759	Dynamic and Balanced Control of Three-Phase High-Power Dual-Active Bridge DCâ€“DC Converters in DC-Grid Applications. IEEE Transactions on Power Electronics, 2013, 28, 1880-1889.	5.4	190
760	Analysis and Solution of Current Zero-Crossing Distortion With Unipolar Hysteresis Current Control in Grid-Connected Inverter. IEEE Transactions on Industrial Electronics, 2013, 60, 4450-4457.	5.2	51
761	Process systems opportunities in power generation, storage and distribution. Computers and Chemical Engineering, 2013, 51, 86-95.	2.0	40

#	Article	IF	Citations
762	Harmonic Droop Controller to Reduce the Voltage Harmonics of Inverters. IEEE Transactions on Industrial Electronics, 2013, 60, 936-945.	5.2	144
763	Decentralized observer-based control via networked communication. Automatica, 2013, 49, 2074-2086.	3.0	64
764	A new power calculation method for single-phase grid-connected systems. , 2013, , .		21
765	Simple control strategy for inverterâ€based distributed generator to enhance microgrid stability in the presence of induction motor loads. IET Generation, Transmission and Distribution, 2013, 7, 1155-1162.	1.4	26
766	Non conventional micro level electricity generation. , 2013, , .		3
767	A grid side converter current controller for accurate current injection under normal and fault ride through operation. , 2013, , .		24
768	Dynamic modeling of grid integrated solar and battery energy system for cloud transient impact study. , 2013, , .		1
769	Single-phase grid connected distributed generation interfacing converter with power quality improvement capability. , 2013, , .		2
770	Design of dual function solar inverter to mitigate power quality events in weak grids. , 2013, , .		2
771	Analysis, design, and implementation of multifunction interfaced inverters for distributed generation. , 2013, , .		1
772	Control methodology of three phase four wire current controlled voltage source active power filter for power quality improvement. , 2013, , .		2
773	Passivity-Based Control of a Grid-Connected Small-Scale Windmill With Limited Control Authority. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2013, 1, 247-259.	3.7	34
774	A droop controller is intrinsically a phase-locked loop. , 2013, , .		18
775	Control of the grid-connected inverter using dsPIC microcontroller. , 2013, , .		9
776	Secondâ€order slidingâ€mode controller design and tuning for grid synchronisation and power control of a wind turbineâ€driven doubly fed induction generator. IET Renewable Power Generation, 2013, 7, 540-551.	1.7	37
777	Selective virtual capacitive impedance loop for harmonic voltage compensation in islanded MicroGrids. , 2013, , .		15
778	Evaluation of DC-link decoupling using electrolytic or polypropylene film capacitors in three-phase grid-connected photovoltaic inverters. , 2013, , .		25
779	Robust predictive dualâ€loop control strategy with reactive power compensation for singleâ€phase gridâ€connected distributed generation system. IET Power Electronics, 2013, 6, 1320-1328.	1.5	36

#	Article	IF	Citations
780	Virtual synchronous machines — Classification of implementations and analysis of equivalence to droop controllers for microgrids. , 2013, , .		287
781	Smart DC Power Management System Based on Software-Configurable Power Modules. IEEE Transactions on Power Electronics, 2013, 28, 1571-1586.	5.4	62
782	Coordinated power control strategy based on primary-frequency-signaling for islanded microgrids. , 2013, , .		12
783	Design and implementation of power converters for wind generator with three phase power factor correction. , 2013, , .		3
784	A robust and efficient PLL algorithm for single-phase grid-connected renewable energy sources. , 2013, , .		3
785	An overview of power electronic converter technology for renewable energy systems. , 2013, , 80-105.		6
786	Suggested grid code modifications to ensure wide-scale adoption of photovoltaic energy in distributed power generation systems. , 2013, , .		62
787	Real-Time Implementation of ANFIS Control for Renewable Interfacing Inverter in 3P4W Distribution Network. IEEE Transactions on Industrial Electronics, 2013, 60, 121-128.	5.2	88
788	A Power Control Method With Simple Structure and Fast Dynamic Response for Single-Phase Grid-Connected DG Systems. IEEE Transactions on Power Electronics, 2013, 28, 221-233.	5.4	80
789	A Novel and Generalized Three-Phase Power Flow Algorithm for Islanded Microgrids Using a Newton Trust Region Method. IEEE Transactions on Power Systems, 2013, 28, 190-201.	4.6	271
790	A Generalized Approach for DG Planning and Viability Analysis Under Market Scenario. IEEE Transactions on Industrial Electronics, 2013, 60, 5075-5085.	5.2	86
791	Lyapunov Function-Based Current Controller to Control Active and Reactive Power Flow From a Renewable Energy Source to a Generalized Three-Phase Microgrid System. IEEE Transactions on Industrial Electronics, 2013, 60, 799-813.	5.2	100
792	Autonomous Voltage Unbalance Compensation in an Islanded Droop-Controlled Microgrid. IEEE Transactions on Industrial Electronics, 2013, 60, 1390-1402.	5.2	285
793	Application of Four-Switch-Based Three-Phase Grid-Connected Inverter to Connect Renewable Energy Source to a Generalized Unbalanced Microgrid System. IEEE Transactions on Industrial Electronics, 2013, 60, 1204-1215.	5.2	101
794	Dynamic Behavior of Multiport Power Electronic Interface Under Source/Load Disturbances. IEEE Transactions on Industrial Electronics, 2013, 60, 4500-4511.	5.2	49
795	D-STATCOM With Positive-Sequence Admittance and Negative-Sequence Conductance to Mitigate Voltage Fluctuations in High-Level Penetration of Distributed-Generation Systems. IEEE Transactions on Industrial Electronics, 2013, 60, 1417-1428.	5.2	173
796	A New Design Method for the Passive Damped LCL and LLCL Filter-Based Single-Phase Grid-Tied Inverter. IEEE Transactions on Industrial Electronics, 2013, 60, 4339-4350.	5.2	385
797	Open-Circuit Fault Diagnosis in PMSG Drives for Wind Turbine Applications. IEEE Transactions on Industrial Electronics, 2013, 60, 3957-3967.	5.2	238

#	Article	IF	Citations
798	Investigation and Active Damping of Multiple Resonances in a Parallel-Inverter-Based Microgrid. IEEE Transactions on Power Electronics, 2013, 28, 234-246.	5.4	419
799	Intelligent-controlled doubly fed induction generator system using PFNN. Neural Computing and Applications, 2013, 22, 1695-1712.	3.2	9
800	Design and Implementation of a Control Strategy for Microgrid Containing Renewable Energy Generations and Electric Vehicles. Mathematical Problems in Engineering, 2013, 2013, 1-15.	0.6	11
801	Control Method for Reducing the THD of Grid Current of Three-Phase Grid-Connected Inverters Under Distorted Grid Voltages. Journal of Power Electronics, 2013, 13, 712-718.	0.9	6
802	Application of a C-Type Filter Based LCFL Output Filter to Shunt Active Power Filters. Journal of Power Electronics, 2013, 13, 1058-1069.	0.9	23
803	Three-Level Grid-Connected Inverter Based on Voltage-Oriented Control in Photovoltaic Generation Systems. Advanced Materials Research, 2013, 765-767, 2494-2497.	0.3	0
804	Dynamic Simulation for Grid-Connected Inverters of Distributed Generation Based on DIgSILENT Software. Applied Mechanics and Materials, 0, 291-294, 2042-2046.	0.2	0
805	Modelling Interconnection of Future Combustion Engine Power Plants with Traditional Grid. Applied Mechanics and Materials, 2013, 446-447, 837-841.	0.2	0
806	A new synchronization method for distributed power system. IETE Journal of Research, 2013, 59, 312.	1.8	1
807	Multi-Frequency Proportional-Resonant Control for Wave Power Generation System. Advanced Materials Research, 0, 760-762, 1139-1143.	0.3	0
808	Comparison of performance between bipolar and unipolar double-frequency sinusoidal pulse width modulation in a digitally controlled H-bridge inverter system. Chinese Physics B, 2013, 22, 060509.	0.7	7
809	Wind Energy Facility Reliability and Maintenance. Energy Systems, 2013, , 639-672.	0.5	7
810	Fault Response of Inverter-Based Distributed Generators in Distribution Network. Advanced Materials Research, 0, 860-863, 1846-1852.	0.3	1
811	A complex notch filter based approach to device the control strategy for a generalized unbalanced grid connected distributed generator. , 2013, , .		0
812	A Novel Hybrid Active Power Filter with a High-Voltage Rank. Journal of Power Electronics, 2013, 13, 719-728.	0.9	7
813	Low-Voltage Ride-Through Capability of a Single-Stage Single-Phase Photovoltaic System Connected to the Low-Voltage Grid. International Journal of Photoenergy, 2013, 2013, 1-9.	1.4	87
814	An Enhanced Harmonic Voltage Compensator for General Loads in Stand-alone Distributed Generation Systems. Journal of Power Electronics, 2013, 13, 1070-1079.	0.9	10
815	Small-signal stability analysis of offshore wind farms with LCC HVDC. , 2013, , .		15

#	Article	IF	Citations
816	Enhanced power quality control strategy for paralleled inverters in distributed generation. , 2013, , .		0
817	Voltage sag and unbalance generator for power quality testing of adjustable speed drives. , 2013, , .		1
818	Mitigation of unbalanced disturbances using hybrid controller. , 2013, , .		0
819	Mechanism and elimination of harmonic current injection from singleâ€phase gridâ€connected PWM converters. IET Power Electronics, 2013, 6, 88-95.	1.5	30
820	Harmonic control: A natural way to bridge resonant control and repetitive control. , 2013, , .		1
821	MRAS-based sensorless control for high-speed induction machine connected to the grid. , 2013, , .		1
822	A robust synchronization method for centralized microgrids. , 2013, , .		3
823	Model predictive mean power control of PWM rectifier. , 2013, , .		1
824	A frequency adaptive technique for accurate estimation of single-phase grid voltage fundamental parameters. , 2013, , .		8
825	Phase synchronization of inverter linking power system network with distributed generation under voltage sag. , 2013, , .		1
826	A novel seamless transferring control method for microgrid based on master-slave configuration. , 2013, , .		25
827	Assessment of synchronous-frame PI current control dynamics by means of multivariable analysis with time-delays consideration. , 2013, , .		0
828	Grid connection control of VSC-based high power converters for wave energy applications. , 2013, , .		1
829	Multifunctional DC-link capacitor midpoint inverter control of a distributed generation grid connected system. , 2013, , .		2
830	A recursive DFT based technique for accurate estimation of grid voltage frequency. , 2013, , .		12
831	Robust estimation of real-time single-phase grid voltage frequency under distorted conditions. , 2013, , .		7
832	Support of grid voltages with asymmetrical reactive currents in case of grid errors. , 2013, , .		2
833	Assessing cloud transient impacts on grid with solar and battery energy systems. , 2013, , .		0

#	Article	IF	Citations
834	Sensitivity analysis of PI cascade control of power converter. , 2013, , .		3
835	Application of high-sampling-frequency control in low-switching-frequency Lcl-filtered system. , 2013, , .		1
836	An overview of grid fundamental and harmonic components detection techniques. , 2013, , .		12
837	Comparison of linear and predictive control employing different current reference strategies for unbalance voltage sources. , 2013, , .		0
838	Contribution of photovoltaic power generation systems to AC short circuits — A survey of current modeling practices and challenges. , 2013, , .		7
839	Synchronization of dynamical networks with a communication infrastructure: A smart grid application. , 2013, , .		17
840	Analysis and improvement of performance in LCL filterâ€based PWM rectifier/inverter application using hybrid damping approach. IET Power Electronics, 2013, 6, 309-325.	1.5	45
841	Two-stage converter with reduced leakage currents for transformerless photovoltaic systems. , 2013, , .		0
842	Power transfer analysis in a single phase dual active bridge. Bulletin of the Polish Academy of Sciences: Technical Sciences, 2013, 61, 809-828.	0.8	20
843	Applying Rough Sets for the Identification of Significant Variables in Photovoltaic Energy Production with Isolated Systems. Jurnal Teknologi (Sciences and Engineering), 2013, 63, .	0.3	1
844	The Performance of a New Hybrid PLL in an Interconnected Renewable Energy Systems under Fault Ride Through Operation. Conference Papers in Energy, 2013, 2013, 1-10.	0.5	1
845	Fault Tolerant Ancillary Function of Power Converters in Distributed Generation Power System within a Microgrid Structure. Advances in Power Electronics, 2013, 2013, 1-12.	0.8	8
846	Evaluation of Harmonic Content from a Tap Transformer Based Grid Connection System for Wind Power. Journal of Renewable Energy, 2013, 2013, 1-8.	2.1	2
847	Correlation Between Energy and Information. Journal of Asian Electric Vehicles, 2013, 11, 1625-1634.	0.4	6
848	Development of Control Structure for Hybrid Wind Generators with Active Power Capability. Advances in Power Electronics, 2014, 2014, 1-9.	0.8	1
849	Performance Analysis of a Shunt Compensator Controlled Using Modified Synchronous Reference Theory. Advances in Electrical Engineering, 2014, 2014, 1-10.	1.1	0
850	System Efficiency of a Tap Transformer Based Grid Connection Topology Applied on a Direct Driven Generator for Wind Power. Scientific World Journal, The, 2014, 2014, 1-7.	0.8	3
851	Bifurcation Analysis in a Digitally Controlled H-Bridge Grid-Connected Inverter. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2014, 24, 1450002.	0.7	12

#	Article	IF	Citations
852	Modular Multilevel Converter for wind power generation system connected to micro-grid. , 2014, , .		15
853	A multiple loop control method for grid-connected inverter integrating renewable sources with LCL filter. , 2014, , .		1
854	A multi-functional grid-connected inverter and its application in the green ship. , 2014, , .		0
855	Control of active and reactive powers in three phase inverters for grid-tied photovoltaic systems under unbalanced voltages. , 2014, , .		1
856	A novel nonlinear current control technique for a grid-connected DC/AC inverter used in renewable energy power conditioning systems. , 2014, , .		3
857	Research on a new method to achieve low voltage ride through of PV. , 2014, , .		3
858	Implementation of d-q decoupling and feed-forward current controller for grid connected three phase voltage source converter. , 2014, , .		3
859	Influences of power electronic converters on current-voltage behaviors during faults in DGUs-Part I: Wind energy conversion systems. , 2014, , .		2
860	Stochastic Measurement of Power Grid Frequency Using a Two-Bit A/D Converter. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 56-62.	2.4	13
861	Flexible grid connection technique of voltage source inverter under unbalanced grid conditions based on direct power control. , 2014, , .		1
862	Decentralized architecture and control of photovoltaic generation system based on cascaded AC module integrated converter. , 2014, , .		2
863	A Robust Frequency Estimation Technique Based on Three Consecutive Samples for Single-Phase Systems. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2014, 2, 1049-1058.	3.7	27
864	Reduced order generalized integrators based selective harmonic compensation current controller for shunt active power filters. , 2014, , .		9
865	Research on control strategy of three-phase grid-connected inverter under distorted and unbalanced voltage conditions. , 2014, , .		1
866	Models for the modern power grid. European Physical Journal: Special Topics, 2014, 223, 2423-2437.	1.2	89
867	Hybrid current control of three-phase grid-connected converter for marine current power generation system. , 2014, , .		2
868	A simplified control algorithm for wind-power battery charger. , 2014, , .		1
869	A novel soft-switching DC-DC converter with high-step-down conversion. , 2014, , .		0

#	Article	IF	Citations
870	A isolated soft-switching DC-DC converter with high-step-down conversion. , 2014, , .		1
871	Using synchronverters for power grid stabilization. , 2014, , .		16
872	Improved power quality control strategy for distributed generation systems. , 2014, , .		1
873	A high performance controller for a single phase cascaded multilevel photovoltaic system. , 2014, , .		0
874	Improved reliability of single-phase PV inverters by limiting the maximum feed-in power. , 2014, , .		15
875	Simulation of a-Si PV system linked to the grid by DC-DC boost and two-level converter. , 2014, , .		3
876	Autonomous protection of low voltage DC microgrid. , 2014, , .		11
877	Control implementation of the full-scale wind power converter without grid voltage sensors. , 2014, , .		6
878	Active damping control strategy for grid-connected inverters by splitting the capacitor of LCL filter. , 2014, , .		0
879	A time-efficient modeling and simulation strategy for aggregated multiple microinverters in large-scale PV systems. , 2014, , .		1
880	An Overview of Synchronization Methods of Grid Fundamental Signal. Applied Mechanics and Materials, 2014, 494-495, 1779-1783.	0.2	0
881	Fault Analysis on Photo Voltaic Fed Grid Connected Systems. Advanced Materials Research, 2014, 984-985, 1013-1022.	0.3	0
882	The study of micro-grid control strategy contained unbalanced load based on sliding-mode variable structure. , 2014, , .		0
883	Impact of three-phase single-stage photovoltaic (PV) system interfaced with distribution network on load modeling. , 2014, , .		0
884	Survey on Microgrid: Power Quality Improvement Techniques. , 2014, 2014, 1-7.		23
885	A Grid Voltage Measurement Method for Wind Power Systems during Grid Fault Conditions. Energies, 2014, 7, 7732-7745.	1.6	6
886	Improved Virtual Vector Control of Single-Phase Inverter Based on Unified Model. IEEE Transactions on Energy Conversion, 2014, 29, 611-618.	3.7	47
887	Survey on hybrid (Wind/Solar) renewable energy system and associated control issues. , 2014, , .		6

#	Article	IF	Citations
888	Power Control of Photovoltaic Inverter under Unbalanced Grid Faults Considering Limits of Its Current Harmonics. Advanced Materials Research, 2014, 960-961, 1356-1360.	0.3	1
889	Design of Phase Synchronization Unit for Active Power Filter in Superconducting Magnet Power Supply. Applied Mechanics and Materials, 2014, 615, 18-21.	0.2	0
890	Research on Discretization PI Control Technology of Single-Phase Grid-Connected Inverter with LCL Filter. Mathematical Problems in Engineering, 2014, 2014, 1-9.	0.6	1
891	Computer modeling and simulation of MPC control for grid connected renewable power sources. , 2014, , .		0
893	Differentiation filterâ€based technique for robust estimation of singleâ€phase grid voltage frequency under distorted conditions. IET Generation, Transmission and Distribution, 2014, 8, 907-915.	1.4	9
894	Application of the matrix converter to power flow control. Archives of Electrical Engineering, 2014, 63, 409-422.	1.0	5
895	Analysis on circulating current in parallel connected PV-inverters. , 2014, , .		3
896	Design and experimental implementation of a robust DLQR for three-phase grid-connected converters. , 2014, , .		1
897	Implementation of a grid-forming converter based on modified synchronous reference frame. , 2014, , .		8
898	A novel inertial control strategy for full-capacity wind turbine with PLL by optimizing internal potential response. , 2014, , .		9
899	Estimation of synchronization signal using sinusoidal amplitude integrator in synchronous reference frame. , 2014, , .		0
900	On/off-grid integrated photovoltaic power generation system. , 2014, , .		2
901	Detection of capacitor degradation in LC filters for AC drives. , 2014, , .		2
902	DC-Bus hybrid energy storage devices cooperation control strategy for stand-alone inverter under imbalance load. , 2014, , .		0
903	Approach to control of hybrid renewable power system on the basis of adaptive control with local parametric optimization. , 2014, , .		1
904	Back-to-back MVDC link for distribution system active connection: A network study. , 2014, , .		6
905	A feed-forward control approach using Neural Network observers for single-phase inverter. , 2014, , .		0
906	Estimation of voltage signal analysis using Extended Kalman Filter. , 2014, , .		2

#	Article	IF	Citations
907	Modeling and grid impedance variation analysis of parallel connected grid connected inverter based on impedance based harmonic analysis. , 2014, , .		0
908	A novel hybrid SPLL for polluted grid environment. , 2014, , .		0
909	Three Phase Three Layer Phase Synchronous Inverter for Microgrid System. , 2014, , .		2
910	Synchronization and dq current control of grid-connected voltage source inverter. , 2014, , .		9
911	Optimized design of damped proportional-resonant controllers for grid-connected inverters through genetic algorithm. , 2014, , .		1
912	Residential battery energy storage system with 3kWh Li-ion battery pack. , 2014, , .		1
913	Research on lowâ€order current harmonics rejections for gridâ€connected LCLâ€filtered inverters. IET Power Electronics, 2014, 7, 1227-1234.	1.5	37
914	Compensation of Negative Sequence Component using sequence parameters. , 2014, , .		3
915	Improvement of grid current performance for grid-connected DG under distorted grid voltage and nonlinear local loads. , 2014, , .		1
916	Novel grid voltage estimation by means of the Newtonâ€“Raphson optimisation for threeâ€phase grid connected voltage source converters. IET Power Electronics, 2014, 7, 2945-2953.	1.5	18
917	Generation scheduling at PCC in grid connected microgrid. , 2014, , .		6
918	Study on three-phase photovoltaic systems under grid faults. , 2014, , .		19
919	Tuning of proportional resonant controllers for three phase PV power converters with LCL+trap filter. , 2014, , .		1
920	A real-time testbed for coordinated control of inverters in LV microgrids. , 2014, , .		6
921	On the application of a novel model order reduction algorithm for sequentially semi-separable matrices to the identification of one-dimensional distributed systems. , 2014, , .		1
922	A new PLL based on fast positive and negative sequence decomposition algorithm with matrix operation under distorted grid conditions. , 2014, , .		2
923	A Bandpass Filter Incorporated Into the Inductor Current Feedback Path for Improving Dynamic Performance of the Front-End DCâ€“DC Converter in Two-Stage Inverter. IEEE Transactions on Industrial Electronics, 2014, 61, 2316-2325.	5.2	77
924	New robust controller design for voltage source inverters in microgrids. , 2014, , .		0

#	Article	IF	Citations
925	Selective harmonic control for power converters. , 2014, , .		0
926	Analysis of synchronous and stationary reference frame control strategies to fulfill LVRT requirements in Wind Energy Conversion Systems. , 2014, , .		10
927	Reactive power influence on power quality for grid connected converter in DPGS applications. , 2014, , .		0
928	Analysis and comparison of two active anti-islanding detection methods. , 2014, , .		2
929	Modeling and resonant characteristics analysis of multiple paralleled grid-connected inverters with LCL filter. , 2014, , .		2
930	Mission profile translation to capacitor stresses in grid-connected photovoltaic systems. , 2014, , .		16
931	An improved islanding detection method based on correlation technique using reactive power variation. IEEJ Transactions on Electrical and Electronic Engineering, 2014, 9, 465-470.	0.8	7
932	Performance Evaluation of Three-Phase Grid-Connected Photovoltaic Inverters Using Electrolytic or Polypropylene Film Capacitors. IEEE Transactions on Sustainable Energy, 2014, 5, 1297-1306.	5.9	57
933	Analysis of multilevel converters operation through programmable source emulators. , 2014, , .		0
934	Enhancement of microgrid frequency control subsequent to islanding process using flywheel energy storage system. , 2014, , .		3
936	Analysis of Input Phase for PLL in Dynamic Environment. Applied Mechanics and Materials, 2014, 668-669, 669-672.	0.2	0
937	Performance analysis of a grid-tied inverter for renewable energy applications. , 2014, , .		3
938	Relationship between finite control set model predictive control and direct current control for three-phase voltage source converters. , 2014, , .		4
939	Comparative Analysis of Inverter Topology for Highly Efficient Single-Phase Photovoltaic Generation System. Advanced Materials Research, 2014, 1070-1072, 20-23.	0.3	0
940	Synchronization techniques benchmarking of grid fault modes in single-phase systems. , 2014, , .		2
941	Power quality improvement of single-phase photovoltaic systems through a robust synchronization method. , 2014, , .		6
942	Improved cascade-type repetitive control of grid-tied inverter with LCL filter. , 2014, , .		4
943	Development of stationary frame PR current controller for performance improvement of grid tied PV inverters. , 2014, , .		10

#	Article	IF	Citations
944	A power control of three-phase converter with AVFSVC control for high-power induction heating applications. , 2014, , .		3
945	Supply Frequency Tracking in Resistance-Based Induction Motor's Rotor Temperature Estimation. IEEE Transactions on Industry Applications, 2014, 50, 3161-3172.	3.3	5
946	Modified SRF-PLL to operate under unbalance grid for grid synchronization of DVR. , 2014, , .		4
947	Research on a new method to achieve low voltage ride through of PV. , 2014, , .		4
948	Simulation of a Seven-Level asymmetric cascade multilevel inverter with PR control. , 2014, , .		2
949	Development of power flow controller for grid connected renewable energy sources using lyapnouv function. , 2014, , .		1
950	Dual current control strategy to fulfill LVRT requirements in WECS. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2014, 33, 1665-1677.	0.5	4
951	A novel soft-switching DC-DC converter with high-step-down conversion. , 2014, , .		1
952	A single-phase grid synchronization method based on frequency locked loop for PV grid-connected inverter under weak grid. , 2014, , .		5
953	Research on the Control of Distributed Power Grid-Connected Inverter. Applied Mechanics and Materials, 2014, 654, 238-241.	0.2	0
954	Improvement of Microgrid Dynamic Performance under Fault Circumstances using ANFIS for Fast Varying Solar Radiation and Fuzzy Logic Controller for Wind System. Archives of Electrical Engineering, 2014, 63, 551-578.	1.0	18
955	A hybrid fuel cell-battery power system. , 2014, , .		4
956	Intelligent control of diesel generators using gain-scheduling: Based on online external-load estimation. , 2014, , .		0
957	A resonance suppression method for a multiple grid-connected-converter system with LCL filter. , 2014, , .		2
958	Adaptive sampling period adjusted sliding DFT for synchronous reference frame PLL. , 2014, , .		7
959	Topologies and control of grid connected power converters. , 2014, , .		16
960	Adaptive notch filter based synchronization technique for integration of distributed generation systems to utility grid. , 2014, , .		11
961	Design and analysis of stationary frame PR current controller for performance improvement of grid tied PV inverters. , 2014, , .		8

#	Article	IF	Citations
962	Extended Kalman Filter for characterizing a wind energy conversion system based onvariable speed permanent magnet synchronous generator. , 2014, , .		2
963	Control Strategy of Three-Phase Battery Energy Storage Systems for Frequency Support in Microgrids and with Uninterrupted Supply of Local Loads. IEEE Transactions on Power Electronics, 2014, 29, 5010-5020.	5.4	219
964	Impedance Modeling and Analysis of Grid-Connected Voltage-Source Converters. IEEE Transactions on Power Electronics, 2014, 29, 1254-1261.	5.4	893
965	Direct Grid Current Control of LCL-Filtered Grid-Connected Inverter Mitigating Grid Voltage Disturbance. IEEE Transactions on Power Electronics, 2014, 29, 1532-1541.	5.4	158
966	Online Selective Harmonic Compensation and Power Generation With Distributed Energy Resources. IEEE Transactions on Power Electronics, 2014, 29, 3738-3747.	5.4	48
967	Lower order grid current harmonics for a voltage-source inverter connected to a distorted grid. Electric Power Systems Research, 2014, 106, 226-231.	2.1	13
968	Step-by-Step Controller Design for LCL-Type Grid-Connected Inverter with Capacitorâ€“Current-Feedback Active-Damping. IEEE Transactions on Power Electronics, 2014, 29, 1239-1253.	5.4	380
969	Adaptive Vectorial Filter for Grid Synchronization of Power Converters Under Unbalanced and/or Distorted Grid Conditions. IEEE Transactions on Industrial Electronics, 2014, 61, 1355-1367.	5.2	130
970	Low-Voltage Ride-Through of Single-Phase Transformerless Photovoltaic Inverters. IEEE Transactions on Industry Applications, 2014, 50, 1942-1952.	3.3	288
971	Behavioral modeling of grid-connected photovoltaic inverters:ÂDevelopment and assessment. Renewable Energy, 2014, 68, 686-696.	4.3	20
972	Software method for harmonic content evaluation of grid connected converters from distributed power generation systems. Energy, 2014, 66, 401-412.	4.5	14
973	Modelling, simulation and experimental verification for renewable agents connected to a distorted utility grid using a Real-Time Digital Simulation Platform. Energy Conversion and Management, 2014, 84, 108-121.	4.4	16
974	Resonance Issues and Damping Techniques for Grid-Connected Inverters With Long Transmission Cable. IEEE Transactions on Power Electronics, 2014, 29, 110-120.	5.4	167
975	An SRF-PLL-Based Sensorless Vector Control Using the Predictive Deadbeat Algorithm for the Direct-Driven Permanent Magnet Synchronous Generator. IEEE Transactions on Power Electronics, 2014, 29, 2837-2849.	5.4	59
976	A Unified Control Strategy for Three-Phase Inverter in Distributed Generation. IEEE Transactions on Power Electronics, 2014, 29, 1176-1191.	5.4	113
977	Self-Synchronized Synchronverters: Inverters Without a Dedicated Synchronization Unit. IEEE Transactions on Power Electronics, 2014, 29, 617-630.	5.4	784
978	Voltage Support Control Strategies for Static Synchronous Compensators Under Unbalanced Voltage Sags. IEEE Transactions on Industrial Electronics, 2014, 61, 808-820.	5.2	120
979	A control scheme to fulfill the grid-code under various fault conditions in the grid-connected wind turbines. Electrical Engineering, 2014, 96, 199-210.	1.2	11

#	Article	IF	Citations
980	Novel Comprehensive Control Framework for Incorporating VSCs to Smart Power Grids Using Bidirectional Synchronous-VSC. IEEE Transactions on Power Systems, 2014, 29, 943-957.	4.6	114
981	Modeling, Analysis, and Design of Multifunction Grid-Interfaced Inverters With Output LCL Filter. IEEE Transactions on Power Electronics, 2014, 29, 3830-3839.	5.4	110
982	Stator Frequency Regulation in a Field-Oriented Controlled DFIG Connected to a DC Link. IEEE Transactions on Industrial Electronics, 2014, 61, 5930-5939.	5.2	80
984	Control of Inverters Via a Virtual Capacitor to Achieve Capacitive Output Impedance. IEEE Transactions on Power Electronics, 2014, 29, 5568-5578.	5.4	83
985	Power electronics in hydro electric energy systems â€“ A review. Renewable and Sustainable Energy Reviews, 2014, 32, 944-959.	8.2	77
986	Primary control level of parallel distributed energy resources converters in system of multiple interconnected autonomous microgrids within selfâ€healing networks. IET Generation, Transmission and Distribution, 2014, 8, 203-222.	1.4	106
987	Microgrids in active network managementâ€”Part I: Hierarchical control, energy storage, virtual power plants, and market participation. Renewable and Sustainable Energy Reviews, 2014, 36, 428-439.	8.2	262
988	LMI-Based Control for Grid-Connected Converters With LCL Filters Under Uncertain Parameters. IEEE Transactions on Power Electronics, 2014, 29, 3776-3785.	5.4	128
989	Inner Control Method and Frequency Regulation of a DFIG Connected to a DC Link. IEEE Transactions on Energy Conversion, 2014, 29, 435-444.	3.7	46
990	Power control for grid connected applications based on the phase shifting of the inverter output voltage with respect to the grid voltage. International Journal of Electrical Power and Energy Systems, 2014, 57, 250-260.	3.3	35
991	An advanced MPPT control scheme for a permanent magnet generator based grid-tied wind energy conversion system. , 2014, , .		3
992	Digital Control Method for Grid-Connected Converters Supplied With Nonideal Voltage. IEEE Transactions on Industrial Informatics, 2014, 10, 127-136.	7.2	18
993	Calculation-Delay Tolerant Predictive Current Controller for Three-Phase Inverters. IEEE Transactions on Industrial Informatics, 2014, 10, 233-242.	7.2	54
994	Analysis and Suppression of Alias in Digitally Controlled Inverters. IEEE Transactions on Industrial Informatics, 2014, 10, 655-665.	7.2	12
995	Reactive Power Sharing and Voltage Harmonic Distortion Compensation of Droop Controlled Single Phase Islanded Microgrids. IEEE Transactions on Smart Grid, 2014, 5, 1149-1158.	6.2	228
996	Model predictive control of inverters for both islanded and gridâ€connected operations in renewable power generations. IET Renewable Power Generation, 2014, 8, 240-248.	1.7	74
997	LCL filter design for grid-connected inverters by analytical estimation of PWM ripple voltage. , 2014, , .		19
998	Constant power generation of photovoltaic systems considering the distributed grid capacity. , 2014, , .		67

#	Article	IF	Citations
999	Integrating VSCs to Weak Grids by Nonlinear Power Damping Controller With Self-Synchronization Capability. IEEE Transactions on Power Systems, 2014, 29, 805-814.	4.6	116
1001	Capacitor-Current-Feedback Active Damping With Reduced Computation Delay for Improving Robustness of LCL-Type Grid-Connected Inverter. IEEE Transactions on Power Electronics, 2014, 29, 3414-3427.	5.4	615
1002	Capacity Optimization of Renewable Energy Sources and Battery Storage in an Autonomous Telecommunication Facility. IEEE Transactions on Sustainable Energy, 2014, 5, 1367-1378.	5.9	106
1003	A modified two-level three-phase quasi-soft-switching inverter. , 2014, , .		4
1004	A wind energy conversion system with enhanced power harvesting capability for low cut-in speeds. , 2014, , .		0
1005	A grid interfacing scheme for renewable energy sources. , 2014, , .		1
1006	A New LCL-Filter With In-Series Parallel Resonant Circuit for Single-Phase Grid-Tied Inverter. IEEE Transactions on Industrial Electronics, 2014, 61, 4640-4644.	5.2	75
1007	An LTCL Filter for Three-Phase Grid-Connected Converters. IEEE Transactions on Power Electronics, 2014, 29, 4322-4338.	5.4	180
1008	Survey on Robust Carrier Tracking Techniques. IEEE Communications Surveys and Tutorials, 2014, 16, 670-688.	24.8	65
1009	Microgrids in active network management â€“ part II: System operation, power quality and protection. Renewable and Sustainable Energy Reviews, 2014, 36, 440-451.	8.2	98
1010	Impedance Shaping of the Grid-Connected Inverter with LCL Filter to Improve Its Adaptability to the Weak Grid Condition. IEEE Transactions on Power Electronics, 2014, 29, 5795-5805.	5.4	392
1011	Active Damping-Based Control for Grid-Connected LCL -Filtered Inverter With Injected Grid Current Feedback Only. IEEE Transactions on Industrial Electronics, 2014, 61, 4746-4758.	5.2	262
1012	A Nonlinear-Disturbance-Observer-Based DC-Bus Voltage Control for a Hybrid AC/DC Microgrid. IEEE Transactions on Power Electronics, 2014, 29, 6162-6177.	5.4	185
1013	Control of offshore marine substation for grid-connection of a wave power farm. International Journal of Marine Energy, 2014, 5, 24-37.	1.8	16
1014	Supervision and control of grid connected PV-Storage systems with the five level diode clamped inverter. Energy Conversion and Management, 2014, 77, 98-107.	4.4	32
1015	Overview of power inverter topologies and control structures for grid connected photovoltaic systems. Renewable and Sustainable Energy Reviews, 2014, 30, 796-807.	8.2	215
1016	An Adaptive Prefiltering Method to Improve the Speed/Accuracy Tradeoff of Voltage Sequence Detection Methods Under Adverse Grid Conditions. IEEE Transactions on Industrial Electronics, 2014, 61, 2139-2151.	5.2	203
1017	A novel LCL filter parameter design method basing on resonant frequency optimization of three-level NPC grid connected inverter. , 2014, , .		7

#	Article	IF	Citations
1018	Fault clearing in a converter-dominated microgrid with traditional protection means. , 2014, , .		0
1019	Low Complexity Model Predictive Controlâ€"Single Vector-Based Approach. IEEE Transactions on Power Electronics, 2014, 29, 5532-5541.	5.4	130
1020	Performance evaluation of current control strategies in LCL-filtered high-power converters with low pulse ratios. , 2014, , .		8
1021	A simple direct power control of a three-phase inverter for a grid-connected wind energy system. , 2014, , .		1
1022	An improved control scheme for grid connected voltage source inverter. , 2014, , .		1
1023	High-efficiency and cost-minimization method of energy storage system with multi storage devices for grid connection. , 2014, , .		4
1024	A fully digital hysteresis current controller for current regulation of grid connected PV inverters. , 2014, , .		7
1025	Voltage Stability and Control of Offshore Wind Farms With AC Collection and HVDC Transmission. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2014, 2, 1181-1189.	3.7	186
1026	Control strategy for microgrid inverter under unbalanced grid voltage conditions. , 2014, , .		1
1027	A simulation of integrated photovoltaic conversion into electric grid. Solar Energy, 2014, 110, 578-594.	2.9	12
1028	An improved transformerless grid connected photovoltaic inverter with reduced leakage current. Energy Conversion and Management, 2014, 88, 854-862.	4.4	46
1029	Dynamic grid impedance calculation in D-Q frame for micro-grids. , 2014, , .		5
1030	An Improved Transformerless Grid Connected Photovoltaic Inverter with Common Mode Leakage Current Elimination. , 2014, , .		10
1031	Low-Complexity Model Predictive Power Control: Double-Vector-Based Approach. IEEE Transactions on Industrial Electronics, 2014, 61, 5871-5880.	5.2	149
1032	Application of a digital ANF-based power processor for micro-grids power quality enhancement. , 2014, , .		5
1033	Overview of connection topologies for grid-connected PV systems. , 2014, , .		5
1034	Step-by-step design and control of LCL filter based three phase grid-connected inverter. , 2014, , .		29
1035	Control Scheme for a Single-Phase Grid-Tied Voltage Source Converter With Reduced Number of Sensors. IEEE Transactions on Power Electronics, 2014, 29, 3758-3765.	5.4	27

#	Article	IF	Citations
1036	Stability of synchronous reference frame-phase locked loop for grid-connected inverter. , 2014, , .		7
1037	Reactive Power Injection Strategies for Single-Phase Photovoltaic Systems Considering Grid Requirements. IEEE Transactions on Industry Applications, 2014, 50, 4065-4076.	3.3	207
1038	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
1039	Hydrogen fuel cell technology. , 2014, , 451-498.		15
1040	DC-link voltage sensorless control technique for single-phase two-stage photovoltaic grid-connected system. , 2014, , .		9
1041	A Review of Active Management for Distribution Networks: Current Status and Future Development Trends. Electric Power Components and Systems, 2014, 42, 280-293.	1.0	78
1042	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
1043	Design Considerations of Digitally Controlled LCL-Filtered Inverter With Capacitor-Current-Feedback Active Damping. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2014, 2, 972-984.	3.7	78
1044	Overview of control, integration and energy management of microgrids. Journal of Modern Power Systems and Clean Energy, 2014, 2, 212-222.	3.3	106
1045	Control of single-phase islanded PV/battery minigrids based on power-line signaling. , 2014, , .		2
1046	Independent control strategy of two DC-link voltages for separate MPPTs in transformerless photovoltaic systems using neutral-point-clamped inverters. , 2014, , .		3
1047	Evaluation of control solution for grid inverter of low power wind turbine for implementation with inexpensive hardware. , 2014, , .		0
1048	Optimum Droop Parameter Settings of Islanded Microgrids With Renewable Energy Resources. IEEE Transactions on Sustainable Energy, 2014, 5, 434-445.	5.9	92
1049	Implementation and experimental evaluation of PIS control for suppression of flow disturbance to pneumatic vibration isolators. , 2014, , .		2
1050	Continuous model in dq frame of Thyristor Controlled Reactors for stability analysis of high power electrical systems. International Journal of Electrical Power and Energy Systems, 2014, 63, 836-845.	3.3	11
1051	Improvement of power quality in distributed generation systems using hybrid power filters. , 2014, , .		9
1052	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
1053	One-Dimensional Optimization for Proportionalâ€“Resonant Controller Design Against the Change in Source Impedance and Solar Irradiation in PV Systems. IEEE Transactions on Industrial Electronics, 2014, 61, 1845-1854.	5.2	45

#	Article	IF	Citations
1054	Dynamic Available AGC Based Approach for Enhancing Utility Scale Energy Storage Performance. IEEE Transactions on Smart Grid, 2014, 5, 1070-1078.	6.2	104
1055	Robust phase lockedâ€loop algorithm for singleâ€phase utilityâ€interactive inverters. IET Power Electronics, 2014, 7, 1064-1072.	1.5	39
1056	Grid connected inverter control by two-degree-of-freedom robust H<inf>∞</inf> repetitive. , 2014, , .		0
1057	Power electronics - The key technology for Renewable Energy Systems. , 2014, , .		27
1058	Universal control method for single phase grid-connected and islanded converters. , 2014, , .		0
1059	Voltage Synchronization Scheme and Control Strategy for 50 T Flat-Top Pulsed Magnetic Field Power System. IEEE Transactions on Applied Superconductivity, 2014, 24, 1-5.	1.1	2
1060	Exploring the Boundaries of Robust Stability Under Uncertain Communication: An NCS Toolbox Applied to a Wireless Control Setup. IEEE Control Systems, 2014, 34, 65-86.	1.0	12
1061	Dual Angle Control for Line-Frequency-Switched Static Synchronous Compensators Under System Faults. IEEE Transactions on Power Electronics, 2014, 29, 2723-2736.	5.4	16
1062	Adaptive-frequency Resonant Harmonic-Compensator structure for a 3-phase grid-connected photovoltaic system. Energy Conversion and Management, 2014, 87, 328-337.	4.4	13
1064	Flexible Arrangement of Static Converters for Grid-Connected Wind Energy Conversion Systems. IEEE Transactions on Industrial Electronics, 2014, 61, 4707-4721.	5.2	16
1065	Two-degree-of-freedom robust ℋ<inf>−</inf> repetitive control for grid-connected inverter. , 2014, , .		0
1066	Direct Lyapunov Control Technique for the Stable Operation of Multilevel Converter-Based Distributed Generation in Power Grid. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2014, 2, 931-941.	3.7	37
1067	Control of three-phase inverter-based DG system during fault condition without changing protection coordination. International Journal of Electrical Power and Energy Systems, 2014, 63, 814-823.	3.3	37
1068	Passivity-Based Control by Series/Parallel Damping of Single-Phase PWM Voltage Source Converter. IEEE Transactions on Control Systems Technology, 2014, 22, 1310-1322.	3.2	49
1069	P+ multiple resonant control for output voltage regulation of microgrid with unbalanced and nonlinear loads. , 2014, , .		6
1070	Analysis and design of ZVS-PWM active clamping DC-to-DC Cuk converter based PV generation system. , 2014, , .		2
1071	Model Predictive Control of Distributed Generation inverter in a microgrid. , 2014, , .		6
1072	Matrix converter interfaces two three-phase AC systems as a component of smart-grid. , 2014, , .		3

#	Article	IF	Citations
1073	Multi-level single-phase shunt current injection converter used in small-signal dq impedance identification. , 2014, , .		7
1074	Robust Predictive Control of Grid-Tied Converters Based on Direct Power Control. IEEE Transactions on Power Electronics, 2014, 29, 5634-5643.	5.4	72
1075	Deadbeat direct power control of threeâ€phase pulseâ€width modulation rectifiers. IET Power Electronics, 2014, 7, 1340-1346.	1.5	53
1076	Direct Lyapunov control (DLC) technique for distributed generation (DG) technology. Electrical Engineering, 2014, 96, 309-321.	1.2	13
1077	A Comparison Study of High-Frequency Isolated DC/AC Converter Employing an Unfolding LCI for Grid-Connected Alternative Energy Applications. IEEE Transactions on Power Electronics, 2014, 29, 3930-3941.	5.4	22
1078	Elimination of Harmonics in a Modular Multilevel Converter Using Particle Swarm Optimization-Based Staircase Modulation Strategy. IEEE Transactions on Industrial Electronics, 2014, 61, 5311-5322.	5.2	95
1081	Using virtual impedance network to improve the control performances of LCL-type grid-connected inverter under the weak grid condition. , 2014, , .		11
1082	A rapid prototyping tool for load and source emulation in a microgrid test laboratory. , 2014, , .		16
1083	Instantaneous grid voltage estimation based on the Newton-Raphson optimization for grid connected VSC applications. , 2014, , .		1
1084	Reactive Power Control for Distributed Generation Power Plants to Comply With Voltage Limits During Grid Faults. IEEE Transactions on Power Electronics, 2014, 29, 6224-6234.	5.4	164
1085	Electric Vehicle Charging in Smart Grid: Optimality and Valley-Filling Algorithms. IEEE Journal on Selected Topics in Signal Processing, 2014, 8, 1073-1083.	7.3	118
1086	Single-phase grid-connected photovoltaic system based on ripple correlation control maximum power point tracking. , 2014, , .		3
1087	Robust Partial Feedback Linearizing Stabilization Scheme for Three-Phase Grid-Connected Photovoltaic Systems. IEEE Journal of Photovoltaics, 2014, 4, 423-431.	1.5	64
1088	A Hybrid Power Control Concept for PV Inverters With Reduced Thermal Loading. IEEE Transactions on Power Electronics, 2014, 29, 6271-6275.	5.4	152
1089	Robust Nonlinear Controller Design for Three-Phase Grid-Connected Photovoltaic Systems Under Structured Uncertainties. IEEE Transactions on Power Delivery, 2014, 29, 1221-1230.	2.9	61
1090	An Enhanced Grid Current Compensator for Grid-Connected Distributed Generation Under Nonlinear Loads and Grid Voltage Distortions. IEEE Transactions on Industrial Electronics, 2014, 61, 6528-6537.	5.2	84
1091	An Intelligent Control System Used to Improve Energy Production From Alternative Sources With DC/DC Integration. IEEE Transactions on Smart Grid, 2014, 5, 2486-2495.	6.2	17
1092	Mode-Adaptive Decentralized Control for Renewable DC Microgrid With Enhanced Reliability and Flexibility. IEEE Transactions on Power Electronics, 2014, 29, 5072-5080.	5.4	390

#	Article	IF	Citations
1093	Individualâ€phase control of 3â€phase 4â€wire voltageâ€“source converter. IET Power Electronics, 2014, 7, 2354-2364.	1.5	10
1094	Filter-capacitor current compensation for D-Σ digital controlled single-phase bi-directional inverter with LCL filter to reduce grid-current distortion. , 2014, , .		1
1095	Power control of photovoltaic grid-connected system and new MPPT method. , 2014, , .		0
1096	Agent-based simulations of the influence of social policy and neighboring communication on the adoption of grid-connected photovoltaics. Energy Conversion and Management, 2014, 80, 158-164.	4.4	27
1097	FPGA-based real time simulation and control of grid-connected photovoltaic systems. Simulation Modelling Practice and Theory, 2014, 43, 34-53.	2.2	24
1098	Two-stage converter with remote state pulse width modulation for transformerless photovoltaic systems. Electric Power Systems Research, 2014, 108, 260-268.	2.1	10
1099	A sensor-less sliding mode control scheme for a stand-alone wound rotor synchronous generator under unbalanced load conditions. International Journal of Electrical Power and Energy Systems, 2014, 60, 275-282.	3.3	5
1100	Sensorless Control of Distributed Power Generators With the Derivative-Free Nonlinear Kalman Filter. IEEE Transactions on Industrial Electronics, 2014, 61, 6369-6382.	5.2	59
1101	Marine energy generation systems and related monitoring and control. IEEE Instrumentation and Measurement Magazine, 2014, 17, 27-32.	1.2	8
1102	Flexible Microgrid Power Quality Enhancement Using Adaptive Hybrid Voltage and Current Controller. IEEE Transactions on Industrial Electronics, 2014, 61, 2784-2794.	5.2	157
1104	Grid Synchronization Systems of Three-Phase Grid-Connected Power Converters: A Complex-Vector-Filter Perspective. IEEE Transactions on Industrial Electronics, 2014, 61, 1855-1870.	5.2	181
1105	Dual multi-string PV topology fed three level grid connected inverter. , 2014, , .		7
1106	Reactive power injection strategies for single-phase photovoltaic systems considering grid requirements. , 2014, , .		21
1107	Antiislanding Protection Based on Signatures Extracted From the Instantaneous Apparent Power. IEEE Transactions on Power Electronics, 2014, 29, 5872-5891.	5.4	24
1108	Dynamic Characterization of Power Electronic Interfaces. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2014, 2, 949-961.	3.7	28
1109	Trends in Microgrid Control. IEEE Transactions on Smart Grid, 2014, 5, 1905-1919.	6.2	2,316
1110	Simple unipolar maximum switching frequency limited hysteresis current control for gridâ€connected inverter. IET Power Electronics, 2014, 7, 933-945.	1.5	30
1111	Improving the Decoupled Double SRF PLL for grid connected power converters. , 2014, , .		15

#	Article	IF	Citations
1113	Utility integration of PV-wind-fuel cell hybrid distributed generation systems under variable load demands. International Journal of Electrical Power and Energy Systems, 2014, 62, 689-699.	3.3	62
1114	Determining the Value of DC-Link Capacitance to Ensure Stable Operation of a Three-Phase Photovoltaic Inverter. IEEE Transactions on Power Electronics, 2014, 29, 665-673.	5.4	92
1115	Design of single-stage three-phase grid-connected photovoltaic system with MPPT and reactive power compensation control. International Journal of Power and Energy Conversion, 2014, 5, 211.	0.2	4
1116	Nonlinear Robust Control of 3 Phase Inverter with Output LC Filter. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 529-533.	0.4	2
1117	Microgrid Control and Protection. , 2014, , 1206-1227.		0
1118	A single-stage active damped LCL-filter-based grid-connected photovoltaic inverter with maximum power point tracking. , 2014, , .		2
1119	Multifunctional converter for power quality and power flow control in wind distributed generation systems directly connected to the grid. , 2014, , .		0
1120	Novel individual voltage balancing control scheme for multilevel cascade activeâ€frontâ€end rectifier. IET Power Electronics, 2014, 7, 50-59.	1.5	13
1121	Transient modeling and control of DFIG for grid power leveling during variable wind speed. , 2015, , .		1
1122	Modified hysteresis current-controlled PWM strategy for Single phase grid connected inverters. , 2015, , .		3
1123	Resonant filtering technique to detect symmetric components under unbalanced conditions for control of Active Front End converters. , 2015, , .		1
1124	Performance comparison of hysteresis and resonant current controllers for a Multifunctional Grid Connected Inverter. , 2015, , .		0
1125	A control scheme to improve the power quality with the absence of dedicated compensation devices in microgrid. , 2015, , .		1
1126	Model predictive control for power control in islanded DC microgrids. , 2015, , .		14
1127	A new control scheme for LCL-type grid-connected inverter with a Notch filter. , 2015, , .		4
1128	Enhancing the frequency adaptability of periodic current controllers for grid-connected power converters. , 2015, , .		0
1129	A review of active/reactive power control strategies for PV power plants under unbalanced grid faults. , 2015, , .		11
1130	Novel voltage control method in distribution networks with DG resources. , 2015, , .		6

#	Article	IF	Citations
1131	Single-phase modular multilevel inverter based grid-connected photovoltaic system. , 2015, , .		1
1132	Proposal of a control scheme for an active filter feasible to the Dc-link capacitor minimization of a PV micro-inverter. , 2015, , .		2
1133	Periodic signal tracking based on zero-pole cancelation with application to inverter. , 2015, , .		0
1134	Microgrid control strategies and synchronization techniques during transition between grid-connected and stand-alone mode of operation. , 2015, , .		3
1135	Econophysics of adaptive power markets: When a market does not dampen fluctuations but amplifies them. Physical Review E, 2015, 92, 012815.	0.8	50
1136	Loss analysis of energy-storage system with multiple storage devices for grid connection. , 2015, , .		0
1137	Robustness analysis for observer based active damping of LCL filter at different resonant frequencies. , 2015, , .		0
1138	An accurate deadbeat control method for grid-tied converter using weighted average current sensing. , 2015, , .		2
1139	A novel control method for suppressing the disturbance of line voltage on the photovoltaic inverter. , 2015, , .		0
1140	An adaptive repetitive controller for three-phase PWM regenerative rectifiers. , 2015, , .		4
1141	A Phase-Locked Loop algorithm for single-phase grid-connected systems with sub and interharmonics immunity. , 2015, , .		2
1142	Simulation of wind only system with battery energy storage and dump load. , 2015, , .		1
1143	Integration of DC power source in micro-grid using VSI with PLL technique. , 2015, , .		2
1145	A Novel Current Controller Scheme for Doubly Fed Induction Generators. Automatika, 2015, 56, 186-195.	1.2	7
1146	Application of Wind energy system with active and reactive power injection into the utility grid. , 2015, , .		0
1147	Hardware implementation of grid connected transformer-less semi-Z-source inverter topology to mitigate common mode leakage current and THD. , 2015, , .		7
1148	Frequency-adaptive grid-virtual-flux synchronization by multiple second-order generalized integrators under distorted grid conditions. Turkish Journal of Electrical Engineering and Computer Sciences, 2015, 23, 1930-1945.	0.9	1
1149	Stability Analysis and Active Damping for <i>LLCL</i>-Filter-Based Grid-Connected Inverters. IEEJ Journal of Industry Applications, 2015, 4, 187-195.	0.9	13

#	Article	IF	Citations
1150	A real-time American Sign Language word recognition system based on neural networks and a probabilistic model. Turkish Journal of Electrical Engineering and Computer Sciences, 2015, 23, 2107-2123.	0.9	9
1151	Control Strategy of Three-Phase Photovoltaic Inverter under Low-Voltage Ride-Through Condition. Mathematical Problems in Engineering, 2015, 2015, 1-23.	0.6	18
1152	Online Fault Identification Based on an Adaptive Observer for Modular Multilevel Converters Applied to Wind Power Generation Systems. Energies, 2015, 8, 7140-7160.	1.6	27
1153	Reliability Assessment of Transformerless PV Inverters considering Mission Profiles. International Journal of Photoenergy, 2015, 2015, 1-10.	1.4	9
1154	Solar Energy and Clean Energy: Trends and Developments 2014. International Journal of Photoenergy, 2015, 2015, 1-4.	1.4	2
1155	An Application of Spectral Kurtosis to Separate Hybrid Power Quality Events. Energies, 2015, 8, 9777-9793.	1.6	11
1156	Flexible Grid Connection Technique of Voltage-Source Inverter Under Unbalanced Grid Conditions Based on Direct Power Control. IEEE Transactions on Industry Applications, 2015, 51, 4041-4050.	3.3	66
1157	Current control of grid converters connected with series ac capacitor. , 2015, , .		3
1158	High-power wind energy conversion systems: State-of-the-art and emerging technologies. Proceedings of the IEEE, 2015, 103, 740-788.	16.4	714
1159	Advances and challenges in grid tied photovoltaic systems. Renewable and Sustainable Energy Reviews, 2015, 49, 121-131.	8.2	59
1160	Stand Alone Performance of Permanent Magnet Synchronous Wind Power Generator with Current Source Matrix Converter. Electric Power Components and Systems, 2015, 43, 1018-1027.	1.0	3
1161	Future research directions for the wind turbine generator system. Renewable and Sustainable Energy Reviews, 2015, 49, 481-489.	8.2	121
1162	FPGA implementation of an adaptive modulation method for a three-phase grid-tied PV CHB inverter. , 2015, , .		7
1163	Implementation of different strategies of Direct Power Control. , 2015, , .		8
1164	A new t-type direct AC/AC converter. , 2015, , .		3
1165	Overview of Single-phase Grid-connected Photovoltaic Systems. Electric Power Components and Systems, 2015, 43, 1352-1363.	1.0	84
1166	An LCCL filter and its application to a Half-Bridge APF. , 2015, , .		13
1167	Reactive power compensation of wind-diesel hybrid system using STATCOM with Fuzzy tuned and ANFIS tuned PID controllers. , 2015, , .		5

#	Article	IF	Citations
1168	Fixed-endpoint minimum-energy control of bilinear ensemble systems. , 2015, , .		6
1169	Adaptive DC voltage control for single-phase hybrid filter with PV integration capability. , 2015, , .		5
1170	Research on fast open-loop phase locking scheme for three-phase unbalanced grid. , 2015, , .		12
1171	Rapid synchronization technique for enhanced low voltage ride-through operation of a distributed energy resource. , 2015, , .		0
1172	Study on control characteristic of grid-connected solar photovoltaic plant based on simulation. , 2015, , .		4
1173	Analyze and reduce the impact of sampling delay on LCL converter with capacitor current feedback active damping. , 2015, , .		7
1174	Amplitude-phase-locked loop: Estimator of three-phase grid voltage vector. , 2015, , .		5
1175	Sliding mode control for three-phase unity power factor rectifier with vector operation. , 2015, , .		3
1176	Grid-connected PV power plant LCL filter based on PI and PR control strategy. , 2015, , .		1
1177	Sliding mode control of three-phase grid-connected voltage-source inverter with vector Operation. , 2015, , .		7
1178	Attenuation of low-order current harmonics in three-phase LCL-filtered grid-connected inverters. , 2015, , .		1
1179	Control strategy for voltage unbalance compensation in islanded microgrids. , 2015, , .		3
1180	Control strategies for a high-performance 2×27 MVA machine test bench with multilevel IGCT converters. , 2015, , .		1
1181	Power electronics - the key technology for renewable energy system integration. , 2015, , .		84
1182	A risk assessment approach for dispatching operations based on critical equipment search. , 2015, , .		0
1183	Harmonic current suppression of grid-connected PV power plant LCL filter based on PR control strategy. , 2015, , .		0
1184	Analysis of pre-compensator for disturbance signal elimination in single-phase inverters with virtual vector control. , 2015, , .		2
1185	Limiting power control strategy combining spring system and speed control feasible to small WECS. , 2015, , .		0

#	Article	IF	Citations
1186	Digital realization of capacitor-voltage feedback active damping for LCL-filtered grid converters. , 2015, , .		4
1187	Robust controller design and analysis for distributed three-phase inverter voltage tracking. , 2015, , .		1
1188	Analysis, design and implementation of a quasi-proportional-resonant controller for multifunctional capacitive-coupling grid-connected inverter. , 2015, , .		7
1189	Mitigation of Harmonics in Grid-Connected and Islanded Microgrids Via Virtual Admittances and Impedances. IEEE Transactions on Smart Grid, 2015, , 1-11.	6.2	83
1190	Smart energy storage system for integration of PMSG-based wind power plant. , 2015, , .		2
1191	Nonlinear backstepping controller design for sharing active and reactive power in three-phase grid-connected photovoltaic systems. , 2015, , .		19
1192	The impact of converter's synchronization during FRT voltage recovery in two-phase short circuits. , 2015, , .		5
1193	A novel optimal controller design for doubly fed induction generator speed control. , 2015, , .		1
1194	Dynamic model of a grid-connected three-phase inverter with slope voltage control. , 2015, , .		1
1195	Advanced design tools for the reliability of power electronics â€" Case studies on a photovoltaic (PV) system. , 2015, , .		4
1196	Dual feedback active damping method for grid-connected LCL filter resonance. , 2015, , .		2
1197	The Strategy Control of Islanded Microgrid Using Battery's State-of-Charge. , 2015, , .		0
1198	Development of utility interactive inverters for controlling renewable energy penetration into grid. , 2015, , .		1
1199	Deadbeat direct power control for grid connected inverters using a full-order observer. , 2015, , .		6
1200	Minimizing inverter self-synchronization due to reactive power injection on weak grids. , 2015, , .		4
1201	Capacitor volume evaluation based on ripple current in modular multilevel converter. , 2015, , .		11
1202	Pseudo-Random Sequences in DQ-Domain Analysis of Feedforward Control in Grid-Connected Inverters. IFAC-PapersOnLine, 2015, 48, 1301-1306.	0.5	12
1203	PR control based cascaded current and voltage control for seamless transfer of microgrid. , 2015, , .		3

#	Article	IF	Citations
1204	A digital phase locked loop based on frequency self-adaptive. , 2015, , .		0
1205	Proposal of a new hybrid control strategy for dynamic performance improvement of wound field synchronous generator-based wind turbines. Journal of Renewable and Sustainable Energy, 2015, 7, 043113.	0.8	9
1206	Harmonic and imbalance voltage mitigation in smart grids: A DSTATCOM based solution. , 2015, , .		2
1207	Modeling of 1.6 kWp single-phase grid-connected photovoltaic system. , 2015, , .		2
1208	Integrated hybrid output converter as power router for renewable-based nanogrids. , 2015, , .		8
1209	Grid synchronization of DC energy storage using Voltage Source Inverter with ZCD and PLL techniques. , 2015, , .		11
1210	Control of energy storage systems for three-phase applications. , 2015, , .		1
1211	A New Theory of Reactive Power Control of Grid Connected PV Inverter. , 2015, , .		12
1212	Optimum and adjustable damping control of grid-connected inverter with an LCL filter. , 2015, , .		2
1213	Simple and fast synchronous reference frame current control for single-phase grid-connnected votage souce converters. , 2015, , .		3
1214	Design and analysis of current controllers with active damped LCL filter for three-phase grid connected solar PV system. , 2015, , .		4
1215	Enhancement of the stability and the transient response of inverter based DG unit in isolated micro-grids. , 2015, , .		0
1216	Advanced Grid Integration of Renewables Enabled by Power Electronics Technology. , 2015, , 3-9.		5
1217	Investigation of grid voltage sampling distortion effects on feedforward control in LCL grid-connected inverters. , 2015, , .		1
1218	Topology and control of a two-phase residential PV system with load compensation capability. , 2015, , .		3
1219	Backup Control of Wind Power Generation System Based on Voltage-Sensorless and LCL Active Damping Scheme. Wind Engineering, 2015, 39, 65-81.	1.1	0
1220	Comparative evaluation of synchronization techniques for grid interconnection of renewable energy sources. , 2015, , .		14
1221	A fuzzy-based hybrid PLL scheme for abnormal grid conditions. , 2015, , .		2

#	Article	IF	Citations
1222	Design and analysis of PID and fuzzy-PID controller for voltage control of DC microgrid. , 2015, , .		27
1223	Single-Phase Cascaded Grid Connected Multilevel Inverter for Interfacing Renewable Energy Sources With Microgrid. Journal of Solar Energy Engineering, Transactions of the ASME, 2015, 137, .	1.1	6
1224	Developing and testing phaselet frames-based digital protection for distributed generation units. , 2015, , .		5
1225	Model predictive control of PWM AC/DC converters for Bi-directional power flow control in microgrids. , 2015, , .		12
1226	Enhancing the Frequency Adaptability of Periodic Current Controllers with a Fixed Sampling Rate for Grid-Connected Power Converters. IEEE Transactions on Power Electronics, 2015, , 1-1.	5.4	68
1227	Unbalance and harmonic mitigation using battery inverters. , 2015, , .		7
1228	Advanced microgrid power control through grid-connected inverters. , 2015, , .		2
1229	Analysis on controller of grid-connected inverter by using virtual circuit. , 2015, , .		6
1230	Sliding Mode Control of a Hybrid Fuel cell-Battery Power System. IFAC-PapersOnLine, 2015, 48, 512-517.	0.5	5
1231	Improving the performance of PV grid interface inverter using the adaptive hysteresis band current controller. , 2015, , .		12
1232	Intelligent volt/VAR control algorithm for active power distribution system to maximize the energy savings. , 2015, , .		6
1233	Overview of Power Management Strategies of Hybrid AC/DC Microgrid. IEEE Transactions on Power Electronics, 2015, 30, 7072-7089.	5.4	725
1234	A Multifunction Control Strategy for the Stable Operation of DG Units in Smart Grids. IEEE Transactions on Smart Grid, 2015, 6, 598-607.	6.2	52
1235	Decoupled control of grid connected inverter with dynamic online grid impedance measurements for micro grid applications. International Journal of Electrical Power and Energy Systems, 2015, 68, 1-14.	3.3	28
1236	A Robust Synchronization to Enhance the Power Quality of Renewable Energy Systems. IEEE Transactions on Industrial Electronics, 2015, 62, 4858-4868.	5.2	145
1237	Power Decoupling Method for Single-Phase H-Bridge Inverters With No Additional Power Electronics. IEEE Transactions on Industrial Electronics, 2015, 62, 4805-4813.	5.2	143
1238	Control Strategy of Two Capacitor Voltages for Separate MPPTs in Photovoltaic Systems Using Neutral-Point-Clamped Inverters. IEEE Transactions on Industry Applications, 2015, 51, 3295-3303.	3.3	76
1240	Hierarchical control structure in microgrids with distributed generation: Island and grid-connected mode. Renewable and Sustainable Energy Reviews, 2015, 44, 797-813.	8.2	169

#	Article	IF	Citations
1241	A Virtual Synchronous Machine implementation for distributed control of power converters in SmartGrids. Electric Power Systems Research, 2015, 122, 180-197.	2.1	474
1242	Air-Gap Power-Based Sensorless Control in a DFIG Connected to a DC Link. IEEE Transactions on Energy Conversion, 2015, 30, 367-375.	3.7	25
1243	Semiâ€Zâ€source inverter topology for gridâ€connected photovoltaic system. IET Power Electronics, 2015, 8, 63-75.	1.5	37
1244	Grid Harmonics Suppression Scheme for <italic>LCL</italic>-Type Grid-Connected Inverters Based on Output Admittance Revision. IEEE Transactions on Sustainable Energy, 2015, 6, 411-421.	5.9	80
1245	Coordinated Control Based on Bus-Signaling and Virtual Inertia for Islanded DC Microgrids. IEEE Transactions on Smart Grid, 2015, 6, 2627-2638.	6.2	162
1246	Grid Voltage Synchronization for Distributed Generation Systems Under Grid Fault Conditions. IEEE Transactions on Industry Applications, 2015, 51, 3414-3425.	3.3	170
1247	Wide Damping Region for <italic>LCL</italic>-Type Grid-Connected Inverter With an Improved Capacitor-Current-Feedback Method. IEEE Transactions on Power Electronics, 2015, 30, 5247-5259.	5.4	192
1248	A survey on control of electric power distributed generation systems for microgrid applications. Renewable and Sustainable Energy Reviews, 2015, 44, 751-766.	8.2	305
1249	Single phase transformerless inverter topologies for grid-tied photovoltaic system: A review. Renewable and Sustainable Energy Reviews, 2015, 45, 69-86.	8.2	200
1250	Performance of a Direct Power Control System Using Coded Wireless OFDM Power Reference Transmissions for Switched Reluctance Aerogenerators in a Smart Grid Scenario. IEEE Transactions on Industrial Electronics, 2015, 62, 52-61.	5.2	39
1251	Transient Performance Improvement of Microgrid by a Resistive Superconducting Fault Current Limiter. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-5.	1.1	55
1252	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
1253	Virtual-Impedance-Based Control for Voltage-Source and Current-Source Converters. IEEE Transactions on Power Electronics, 2015, 30, 7019-7037.	5.4	458
1254	A Method to Improve the Dynamic Performance of Moving Average Filter-Based PLL. IEEE Transactions on Power Electronics, 2015, 30, 5978-5990.	5.4	149
1255	Data analytics based neuroâ€fuzzy controller for dieselâ€photovoltaic hybrid AC microgrid. IET Generation, Transmission and Distribution, 2015, 9, 193-207.	1.4	26
1256	Twoâ€loop powerâ€flow control of gridâ€connected microgrid based on equivalentâ€inputâ€disturbance approach. IEEJ Transactions on Electrical and Electronic Engineering, 2015, 10, 36-43.	0.8	12
1257	Smart Energy Systems for coherent 100% renewable energy and transport solutions. Applied Energy, 2015, 145, 139-154.	5.1	873
1258	An Improved Current Controller for Grid Connected Voltage Source Converter in Microgrid Applications. IEEE Transactions on Sustainable Energy, 2015, 6, 595-605.	5.9	24

#	Article	IF	Citations
1259	Direct Power Control for Switched Reluctance. Generator in Wind Energy. IEEE Latin America Transactions, 2015, 13, 123-128.	1.2	19
1260	Proportional-Resonant Current Controllers Design Based on Desired Transient Performance. IEEE Transactions on Power Electronics, 2015, 30, 5341-5345.	5.4	154
1261	Discrete-time sliding mode control system of the grid-connected doubly fed induction generator at the low sampling frequency. , 2015, , .		3
1262	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
1263	Current control of a modular multilevel converter forÂHVDCÂapplications. Renewable Energy, 2015, 83, 318-331.	4.3	33
1264	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
1265	Enhancement of microgrid dynamic responses under fault conditions using artificial neural network for fast changes of photovoltaic radiation and FLC for wind turbine. Energy Systems, 2015, 6, 551-584.	1.8	24
1266	Error analysis of phase detector based on Clarke transform and arctangent function in polluted grids. Electric Power Systems Research, 2015, 127, 160-164.	2.1	2
1267	Reactive current injection protocol for lowâ€power rating distributed generation sources under voltage sags. IET Power Electronics, 2015, 8, 879-886.	1.5	25
1268	Modeling and control strategy of three phase neutral point clamped multilevel PV inverter connected to the grid. Journal of Building Engineering, 2015, 3, 195-202.	1.6	16
1269	Study on the Illumination Characteristics of Solar Photovoltaic Battery. Advanced Materials Research, 0, 1092-1093, 91-95.	0.3	0
1270	Multi-variable H-infinity robust control applied to primary frequency regulation in microgrids with large integration of photovoltaic energy source. , 2015, , .		11
1271	On-Off control based particle swarm optimization for maximum power point tracking of wind turbine equipped by DFIG connected to the grid with energy storage. International Journal of Hydrogen Energy, 2015, 40, 13749-13758.	3.8	38
1272	Synchronization of voltage frequency converters with the grid in the presence of notching. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2015, 34, 657-673.	0.5	16
1273	Enhancement of grid-connected photovoltaic system using ANFIS-GA under different circumstances. Frontiers in Energy, 2015, 9, 322-334.	1.2	32
1274	Testing of threeâ€phase equipment under voltage sags. IET Electric Power Applications, 2015, 9, 287-296.	1.1	6
1275	Energy Management of a Hybrid ACâ€“DC Micro-Grid Based on a Battery Testing System. Energies, 2015, 8, 1181-1194.	1.6	17
1276	Enabling a flexible exchange of energy of a photovoltaic plant with the grid by means of a controlled storage system. International Journal of Control, 2015, 88, 1353-1365.	1.2	4

#	Article	IF	Citations
1277	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
1278	Modeling and control of quasi Z-source inverters for parallel operation of battery energy storage systems: Application to microgrids. Electric Power Systems Research, 2015, 125, 164-173.	2.1	30
1279	Control strategies of grid interfaced wind energy conversion system: An overview. Renewable and Sustainable Energy Reviews, 2015, 47, 983-996.	8.2	100
1280	A control structure for PWM-controlled static synchronous compensators under unbalanced conditions and grid faults. International Journal of Electrical Power and Energy Systems, 2015, 71, 160-173.	3.3	13
1281	Thermal Performance and Reliability Analysis of Single-Phase PV Inverters With Reactive Power Injection Outside Feed-In Operating Hours. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2015, 3, 870-880.	3.7	133
1282	A novel synchronization method designed for single-phase distorted grid. , 2015, , .		3
1283	Distributed Optimal Active Power Control of Multiple Generation Systems. IEEE Transactions on Industrial Electronics, 2015, 62, 7079-7090.	5.2	159
1284	Digital Control in Power Electronics, 2nd Edition. Synthesis Lectures on Power Electronics, 2015, 5, 1-229.	1.7	27
1285	Assessing the Impact of the Grid-Connected Pacific Marine Energy Center Wave Farm. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2015, 3, 1011-1020.	3.7	20
1286	Sampling period online adjusting-based hysteresis current control without band with constant switching frequency. IEEE Transactions on Industrial Electronics, 2015, 62, 270-277.	5.2	61
1287	A new high efficient transformerless inverter for single phase grid-tied photovoltaic system with reactive power control. , 2015, , .		10
1288	Virtual synchronous control of grid-connected DFIG-based wind turbines. , 2015, , .		18
1289	Cross-coupling and decoupling techniques in the current control of grid-connected voltage source converter. , 2015, , .		11
1290	Active damping of LLCL-filter resonance based on LC-trap voltage and capacitor current feedback. , 2015, , .		10
1291	Design of LLCL-filter for grid-connected converter to improve stability and robustness. , 2015, , .		12
1292	Harmonics mitigation of dead time effects in PWM converters using a repetitive controller. , 2015, , .		28
1293	Smooth mode transition of A DC bus voltage controlled PV inverter using a novel phase locked loop method. , 2015, , .		5
1294	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

#	Article	IF	Citations
1295	Grid-Connected Photovoltaic Plants: An Alternative Energy Source, Replacing Conventional Sources. IEEE Industrial Electronics Magazine, 2015, 9, 18-32.	2.3	98
1296	Detection of Capacitor Degradation in <inline-formula> <tex-math notation="LaTeX">LC</tex-math></inline-formula> Filters for AC Drives. IEEE Transactions on Industry Applications, 2015, 51, 3822-3828.	3.3	6
1297	Compensation of voltage disturbances using PEMFC supported Dynamic Voltage Restorer. International Journal of Electrical Power and Energy Systems, 2015, 71, 77-92.	3.3	55
1298	Control and synchronization algorithms for a grid-connected photovoltaic system under harmonic distortions, frequency variations and unbalances. Renewable Energy, 2015, 80, 380-395.	4.3	13
1299	Bidirectional floating interleaved buck-boost DC-DC converter applied to residential PV power systems. , 2015, , .		14
1300	Simulation of synchronous reference frame PLL based grid connected inverter for photovoltaic application. , 2015, , .		9
1301	Novel control method for reducing EMI in shunt active filters with level shifted random modulation. , 2015, , .		4
1302	Control Scheme for a Bidirectional Converter in a Self-Sustaining Low-Voltage DC Nanogrid. IEEE Transactions on Industrial Electronics, 2015, 62, 6317-6326.	5.2	48
1303	A robust back-stepping stabilization scheme for virtual synchronous generators in weak grids. , 2015, , .		1
1304	Assessing Cloud Transient Impacts of Solar and Battery Energy Systems on Grid Inertial Responses. Electric Power Components and Systems, 2015, 43, 200-211.	1.0	4
1305	Application of a modified flux-coupling type superconducting fault current limiter to transient performance enhancement of micro-grid. Physica C: Superconductivity and Its Applications, 2015, 518, 144-148.	0.6	20
1306	Three-phase inverter synchronization control utilizing internal model principle. , 2015, , .		3
1307	Effect of adding DCâ€offset estimation integrators in thereâ€phase enhanced phaseâ€locked loop on dynamic performance and alternative scheme. IET Power Electronics, 2015, 8, 391-400.	1.5	11
1308	A Survey on Demand Response in Smart Grids: Mathematical Models and Approaches. IEEE Transactions on Industrial Informatics, 2015, 11, 570-582.	7.2	724
1309	Small-Signal Stability Analysis of Three-Phase AC Systems in the Presence of Constant Power Loads Based on Measured d-q Frame Impedances. IEEE Transactions on Power Electronics, 2015, 30, 5952-5963.	5.4	335
1310	A voltage perturbation control of VSI with estimator in weak microgrid. , 2015, , .		3
1311	Comprehensive review and comparison of DC fast charging converter topologies: Improving electric vehicle plug-to-wheels efficiency. , 2015, , .		41
1312	A bilateral reactive power injection method for islanding detection of grid-connected converters in distributed generation units. , 2015, , .		2

#	Article	IF	Citations
1313	Current signature analysis method for in situ characterization of a wind enegy conversion system. , 2015, , .		0
1314	Multifunctional control of an NPC converter for the grid integration of renewable energy sources. , 2015, , .		4
1315	High-performance complex controller for high-power converters with low pulse ratios. , 2015, , .		11
1316	Procedure to match the dynamic response of MPPT and droop-controlled microinverters. , 2015, , .		3
1317	Phase-locked loop effect on non-detection zone of unintentional islanding. , 2015, , .		0
1318	A universal controller for grid-connected and autonomous operation of three-phase DC/AC converters. , 2015, , .		5
1319	Analysis and comparison of resonant-based current controllers implemented in stationary reference frame: A complex pole-zero placement perspective. , 2015, , .		5
1320	A d-q voltage droop control method for inverter paralleling without any communication between individual invertres. , 2015, , .		7
1321	Synchronization of unbalanced three phase voltages with nonlinear estimation. , 2015, , .		3
1322	A novel deadbeat controller for single phase PV grid connected inverters. , 2015, , .		16
1323	Synchronous PV support to an isolated power system. , 2015, , .		1
1324	Low computational burden grid voltage estimation for grid connected voltage source converterâ€based power applications. IET Power Electronics, 2015, 8, 656-664.	1.5	20
1325	Simple digital current control strategy for singleâ€phase gridâ€connected converters. IET Power Electronics, 2015, 8, 245-254.	1.5	9
1326	Dynamic response improvement of hybrid system by implementing ANN-GA for fast variation of photovoltaic irradiation and FLC for wind turbine. Archives of Electrical Engineering, 2015, 64, 291-314.	1.0	23
1327	LVRT capability improvement of a grid-connected PV park by robust sliding mode control. , 2015, , .		3
1328	Adaptive voltage regulation of islanding DC microgrid with multiple distributed PVs and storage units. , 2015, , .		1
1329	Synchronous frequency resonance of virtual synchronous generators and damping control. , 2015, , .		27
1330	A flexible five-level cascaded H-bridge inverter for photovoltaic gird-connected systems. , 2015, , .		7

#	Article	IF	Citations
1331	Wide-Scale Adoption of Photovoltaic Energy: Grid Code Modifications Are Explored in the Distribution Grid. IEEE Industry Applications Magazine, 2015, 21, 21-31.	0.3	220
1332	A novel method for voltage support control under unbalanced grid faults and grid harmonic voltage disturbances. IET Power Electronics, 2015, 8, 1377-1385.	1.5	21
1333	Benchmarking of small-signal dynamics of single-phase PLLs. , 2015, , .		4
1334	The effect of a constant power load on the stability of a smart transformer. , 2015, , .		2
1335	A single-phase PLL algorithm with disturbances immunity. , 2015, , .		2
1336	Power quality enhancement using Distributed Generation inverters with active power control. , 2015, , .		3
1337	Operation strategy and shoot-through indirect control method for three-phase Z-souree inverters. , 2015, , .		0
1338	Smoothening of wind power fluctuations in PMSG based WECS using Z source DC-DC converter. , 2015, , .		1
1339	Frequency fuzzy antiâ€islanding for gridâ€connected and islanding operation in distributed generation systems. IET Power Electronics, 2015, 8, 1255-1262.	1.5	9
1340	Power control strategy in islanded microgrids based on VF and PQ theory using droop control of inverters. , 2015, , .		19
1341	Power electronics converters without DC energy storage in the future electrical power network. Electric Power Systems Research, 2015, 129, 194-207.	2.1	24
1342	Reliable transformerless battery energy storage systems based on cascade dualâ€boost/buck converters. IET Power Electronics, 2015, 8, 1681-1689.	1.5	18
1343	Improved control strategy for the threeâ€phase gridâ€connected inverter. IET Renewable Power Generation, 2015, 9, 587-592.	1.7	53
1344	Experiment on bidirectional single phase converter applying simple model predictive control. , 2015, , .		4
1345	Implementation a HERIC inverter prototype connected to the grid controlled by SOGI-FLL. , 2015, , .		2
1346	Controller design and implementation of a three-phase Active Front End using SiC based MOSFETs. , 2015, , .		7
1347	Mixed H<inf>∞</inf> and passive synchronization of complex dynamical networks with time-varying delays. , 2015, , .		0
1348	Simulation of three-phase grid interactive inverter for wind energy systems. , 2015, , .		5

#	Article	IF	Citations
1349	Benchmarking of phase locked loop based synchronization techniques for grid-connected inverter systems. , 2015, , .		40
1350	A novel control strategy for smooth transition between stand-alone and grid-connected operations of distributed generation. , 2015, , .		6
1351	Soft switching method for multiport DC/DC converters applicable in grid connected clean energy sources. IET Power Electronics, 2015, 8, 1246-1254.	1.5	25
1352	3-terminal high power medium voltage grid coupling converter. , 2015, , .		2
1353	Hybrid ac/dc microgridsâ€"Part II: Review and classification of control strategies. Renewable and Sustainable Energy Reviews, 2015, 52, 1123-1134.	8.2	178
1354	A controller design method for 3 phase 4 wire grid connected VSI with LCL filter. Sadhana - Academy Proceedings in Engineering Sciences, 2015, 40, 1481-1499.	0.8	6
1355	Enhanced utilization of grid-connected inverter. , 2015, , .		0
1356	AC voltage transforming circuits in power systems. , 2015, , .		1
1357	Induction converters: PLL-less converters with induction machines characteristics. , 2015, , .		0
1358	Impact of reactive power injection outside feed-in hours on the reliability of photovoltaic inverters. , 2015, , .		6
1359	Robust optimal current control for gridâ€connected threeâ€phase pulseâ€width modulated converters. IET Power Electronics, 2015, 8, 1490-1499.	1.5	48
1360	Validation of impedance-based small-signal stability analysis for single-phase grid-feeding inverters with PLL. , 2015, , .		2
1361	Modeling of inverter output impedance for stability analysis in combination with measured grid impedances. , 2015, , .		29
1362	An analysis method for harmonic resonance and stability of multi-paralleled LCL-filtered inverters. , 2015, , .		21
1363	Multi String Grid-Connected PV System with LLC Resonant DC/DC Converter. Intelligent Industrial Systems, 2015, 1, 37-49.	1.0	4
1364	Novel deadbeat power control strategy for grid connected systems. Journal of Electrical Systems and Information Technology, 2015, 2, 242-256.	1.2	10
1365	Grid synchronisation technique without using trigonometric functions for accurate estimation of fundamental voltage parameters. IET Generation, Transmission and Distribution, 2015, 9, 1402-1408.	1.4	2
1366	Short transient recovery of low voltage-grid-tied DC distributed generation. , 2015, , .		10

#	Article	IF	Citations
1367	A feedforward compensation based decoupling control strategy for grid-connected inverter with LCL filter. , 2015, , .		3
1368	Frequency adaptive repetitive control of grid-tied single-phase PV inverters. , 2015, , .		6
1369	Review of microgrid architectures â€“ a system of systems perspective. IET Renewable Power Generation, 2015, 9, 1064-1078.	1.7	93
1370	The influence of DC-link voltage control on the performance of active power filter. , 2015, , .		3
1371	Threeâ€phase bidirectional dc/ac converter using a sixâ€leg inverter connected to a direct ac/ac converter. IET Power Electronics, 2015, 8, 2214-2222.	1.5	5
1372	Finite-time sliding mode power control of grid-connected three-phase photovoltaic array. Australian Journal of Electrical and Electronics Engineering, 2015, 12, 301-311.	0.7	3
1373	Influence of modulation technique on power quality issues for grid connected converter. , 2015, , .		4
1374	A Mathematical Model to Predict Voltage Fluctuations in a Distribution System with Renewable Energy Sources. International Journal of Emerging Electric Power Systems, 2015, 16, 549-557.	0.6	3
1375	A novel single phase cascaded multilevel inverter for hybrid renewable energy sources. , 2015, , .		12
1376	Using virtual impedance to analyze the stability of LCL-filtered grid-connected inverters. , 2015, , .		14
1377	Reliability analysis of single-phase PV inverters with reactive power injection at night considering mission profiles. , 2015, , .		16
1378	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
1379	Rapid Tracking of Grid Variables Using Prefiltered Synchronous Reference Frame PLL. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 1826-1836.	2.4	42
1380	A novel reference current generation strategy for multifunction DG-grid interface, using C-RLS algorithm. International Transactions on Electrical Energy Systems, 2015, 25, 2877-2896.	1.2	5
1381	Critic-Based Self-Tuning PI Structure for Active and Reactive Power Control of VSCs in Microgrid Systems. IEEE Transactions on Smart Grid, 2015, 6, 92-103.	6.2	77
1382	Distributed Secondary Voltage and Frequency Restoration Control of Droop-Controlled Inverter-Based Microgrids. IEEE Transactions on Industrial Electronics, 2015, 62, 4355-4364.	5.2	534
1383	Power control based on particle swarm optimization of grid-connected inverter for hybrid renewable energy system. Energy Conversion and Management, 2015, 91, 83-92.	4.4	47
1384	Assessment and performance evaluation of DC-side interactions of voltage-source inverters interfacing renewable energy systems. Sustainable Energy, Grids and Networks, 2015, 1, 28-44.	2.3	9

#	Article	IF	Citations
1385	Wavelet technique based islanding detection and improved repetitive current control for reliable operation of grid-connected PV systems. International Journal of Electrical Power and Energy Systems, 2015, 67, 39-51.	3.3	35
1387	Adaptive sliding-mode voltage control for inverter operating in islanded mode in microgrid. International Journal of Electrical Power and Energy Systems, 2015, 66, 133-143.	3.3	78
1388	Dynamic Performance Improvement of AC/DC Converter Using Model Predictive Direct Power Control With Finite Control Set. IEEE Transactions on Industrial Electronics, 2015, 62, 757-767.	5.2	183
1389	Active and Reactive Power Strategies With Peak Current Limitation for Distributed Generation Inverters During Unbalanced Grid Faults. IEEE Transactions on Industrial Electronics, 2015, 62, 1515-1525.	5.2	240
1390	A Novel Integrated Power Quality Controller for Microgrid. IEEE Transactions on Industrial Electronics, 2015, 62, 2848-2858.	5.2	33
1391	An <italic>LCL</italic>-<italic>LC</italic> Filter for Grid-Connected Converter: Topology, Parameter, and Analysis. IEEE Transactions on Power Electronics, 2015, 30, 5067-5077.	5.4	122
1392	Analysis and Mitigation of Inverter Output Impedance Impacts for Distributed Energy Resource Interface. IEEE Transactions on Power Electronics, 2015, 30, 3563-3576.	5.4	67
1393	Power System Stabilization Using Virtual Synchronous Generator With Alternating Moment of Inertia. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2015, 3, 451-458.	3.7	670
1394	Optimal Selective Harmonic Control for Power Harmonics Mitigation. IEEE Transactions on Industrial Electronics, 2015, 62, 1220-1230.	5.2	62
1395	Active Rectifier With Integrated System Control for Microwind Power Systems. IEEE Transactions on Sustainable Energy, 2015, 6, 60-69.	5.9	20
1396	A Real-Time Computation Method With Dual Sampling Mode to Improve the Current Control Performance of the LCL-Type Grid-Connected Inverter. IEEE Transactions on Industrial Electronics, 2015, 62, 4563-4572.	5.2	170
1397	Extended Application of D-${f Î£}$ Digital Control to a Single-Phase Bidirectional Inverter With an LCL Filter. IEEE Transactions on Power Electronics, 2015, 30, 3903-3911.	5.4	28
1398	Three-phase grid voltage synchronization using sinusoidal amplitude integrator in synchronous reference frame. International Journal of Electrical Power and Energy Systems, 2015, 64, 861-872.	3.3	16
1399	A Robust Synchronization Method for Centralized Microgrids. IEEE Transactions on Industry Applications, 2015, 51, 1602-1609.	3.3	38
1400	Modulation Techniques to Reduce Leakage Current in Three-Phase Transformerless H7 Photovoltaic Inverter. IEEE Transactions on Industrial Electronics, 2015, 62, 322-331.	5.2	140
1401	An Enhanced Islanding Microgrid Reactive Power, Imbalance Power, and Harmonic Power Sharing Scheme. IEEE Transactions on Power Electronics, 2015, 30, 3389-3401.	5.4	317
1402	Universal Integrated Synchronization and Control for Single-Phase DC/AC Converters. IEEE Transactions on Power Electronics, 2015, 30, 1544-1557.	5.4	106
1403	Kriging Based Surrogate Modeling for Fractional Order Control of Microgrids. IEEE Transactions on Smart Grid, 2015, 6, 36-44.	6.2	164

#	Article	IF	Citations
1404	Intelligent Control of Grid-Connected Microgrids: An Adaptive Critic-Based Approach. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2015, 3, 493-504.	3.7	13
1405	Frequency Adaptive Selective Harmonic Control for Grid-Connected Inverters. IEEE Transactions on Power Electronics, 2015, 30, 3912-3924.	5.4	142
1406	Analysis of Phase-Locked Loop Low-Frequency Stability in Three-Phase Grid-Connected Power Converters Considering Impedance Interactions. IEEE Transactions on Industrial Electronics, 2015, 62, 310-321.	5.2	473
1407	Optimized Controller Design for <inline-formula> <tex-math notation="TeX">LCL</tex-math></inline-formula>-Type Grid-Connected Inverter to Achieve High Robustness Against Grid-Impedance Variation. IEEE Transactions on Industrial Electronics, 2015, 62, 1537-1547.	5.2	227
1408	An Adaptive Droop DC-Bus Voltage Controller for a Grid-Connected Voltage Source Inverter With LCL Filter. IEEE Transactions on Power Electronics, 2015, 30, 547-560.	5.4	80
1409	Predictive Optimal Switching Sequence Direct Power Control for Grid-Connected Power Converters. IEEE Transactions on Industrial Electronics, 2015, 62, 2010-2020.	5.2	302
1410	Analysis and Design of New Switching Lookup Table for Virtual Flux Direct Power Control of Grid-Connected Three-Phase PWM ACâ€“DC Converter. IEEE Transactions on Industry Applications, 2015, 51, 1189-1200.	3.3	64
1411	Optimal Power Sharing Control in Networked Fuel Cell Stacks. Computer Aided Chemical Engineering, 2016, 38, 1761-1766.	0.3	1
1412	A Riding-through Technique for Seamless Transition between Islanded and Grid-Connected Modes of Droop-Controlled Inverters. Energies, 2016, 9, 732.	1.6	4
1413	Application of Wireless Sensor and Actuator Networks to Achieve Intelligent Microgrids: A Promising Approach towards a Global Smart Grid Deployment. Applied Sciences (Switzerland), 2016, 6, 61.	1.3	35
1414	Integration of PV based DG Source in AC Microgrid with Interconnection to Grid. Indian Journal of Science and Technology, 2016, 8, .	0.5	2
1415	Connecting and Integrating Variable Renewable Electricity inÂUtility Grid. , 2016, , 1-33.		8
1416	Small-Signal Modeling and Analysis of Grid-Connected Inverter with Power Differential Droop Control. Mathematical Problems in Engineering, 2016, 2016, 1-10.	0.6	3
1417	Virtual synchronous generators and their applications in microgrids. , 2016, , 282-294.		10
1418	Capacitor Current Feedback-Based Active Resonance Damping Strategies for Digitally-Controlled Inductive-Capacitive-Inductive-Filtered Grid-Connected Inverters. Energies, 2016, 9, 642.	1.6	26
1419	Three-Phase PV CHB Inverter for a Distributed Power Generation System. Applied Sciences (Switzerland), 2016, 6, 287.	1.3	17
1420	An Improved Current Control Strategy for a Grid-Connected Inverter under Distorted Grid Conditions. Energies, 2016, 9, 190.	1.6	33
1421	Experiment on Bidirectional Single Phase Converter Applying Model Predictive Current Controller. Energies, 2016, 9, 233.	1.6	10

#	Article	IF	Citations
1422	DC bus splitting voltage feedforward injection method for virtually-grounded three-phase inverter. , 2016, , .		0
1423	Modeling and control of a doubly fed induction generator with a disturbance observer: a stator voltage oriented approach. Turkish Journal of Electrical Engineering and Computer Sciences, 2016, 24, 961-972.	0.9	12
1424	Research of Hydro-Turbine Governor Supplementary Control Strategy for Islanding AC Grid at Sending Terminal of HVDC System. IEEE Transactions on Energy Conversion, 2016, 31, 1229-1238.	3.7	16
1425	Analysis, Design, and Implementation of a Quasi-Proportional-Resonant Controller for a Multifunctional Capacitive-Coupling Grid-Connected Inverter. IEEE Transactions on Industry Applications, 2016, 52, 4269-4280.	3.3	145
1426	Modeling of unbalanced threeâ€phase drivingâ€point impedance with application to control of gridâ€connected power converters. International Journal of Circuit Theory and Applications, 2016, 44, 851-873.	1.3	8
1427	Small Signal Instability of PLL-Synchronized Type-4 Wind Turbines Connected to High-Impedance AC Grid During LVRT. IEEE Transactions on Energy Conversion, 2016, 31, 1676-1687.	3.7	109
1428	Multifunctional Capabilities of Grid Connected Distributed Generation System with Nonâ€Linear Loads. Asian Journal of Control, 2016, 18, 1537-1545.	1.9	2
1429	Microgrid dynamic responses enhancement using artificial neural networkâ€genetic algorithm for photovoltaic system and fuzzy controller for high wind speeds. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2016, 29, 309-332.	1.2	40
1430	Fast and Robust Phase Estimation Algorithm for Heavily Distorted Grid Conditions. IEEE Transactions on Industrial Electronics, 2016, 63, 6845-6855.	5.2	74
1431	Optimum design of proportional-integral controllers in grid-integrated PMSG-based wind energy conversion system. International Transactions on Electrical Energy Systems, 2016, 26, 1006-1031.	1.2	60
1432	A new nine-level single-DC source-based inverter topology for distributed generation. , 2016, , .		3
1433	A novel control strategy to enhance the current quality in grid tied solar inverter. , 2016, , .		2
1434	An improved control algorithm for DSTATCOM based on single-phase SOGI-PLL under varying load conditions and adverse grid conditions. , 2016, , .		10
1435	Enhanced DDSRF based vector control of grid side converter using single AC side current sensor under unbalanced grid conditions. , 2016, , .		1
1436	Global MPPT of grid connected solar PV inverter under partially shaded condition. , 2016, , .		4
1437	Seven level asymmetric cascade inverter with space vector PWM added PR control. , 2016, , .		1
1438	Interaction Control to Synchronize Non-synchronizable Networks. Scientific Reports, 2016, 6, 37142.	1.6	18
1439	Performance of grid-voltage synchronization algorithms based on frequency-and phase-locked loop during severe grid fault conditions. , 2016, , .		4

#	Article	IF	Citations
1440	A PWM method reducing harmonics of two interleaved converters. , 2016, , .		2
1441	Control of an islanded power-electronic converter as an oscillator. , 2016, , .		3
1442	Single-phase LLCZ-filter-based grid-tied inverter with low-pass filter based capacitor current feedback active damper. , 2016, , .		1
1443	Comparison of three popular PLL schemes under balanced and unbalanced grid voltage conditions. , 2016, , .		11
1444	Impedance modeling and stability analysis of LCL-type grid-connected inverters with different current sampling schemes. , 2016, , .		4
1445	Resonant feed forward control for LCL-type grid-tied inverters in weak grid condition. , 2016, , .		9
1446	A cost-effective power ramp-rate control strategy for single-phase two-stage grid-connected photovoltaic systems. , 2016, , .		30
1447	Delta power control strategy for multi-string grid-connected PV inverters. , 2016, , .		10
1448	PV array voltage range extension for photovoltaic inverters using a mini-boost. , 2016, , .		6
1449	Analysis of model predictive control for the active and reactive power in three phase grid connected inverters. , 2016, , .		1
1450	Grid-voltage synchronization algorithm for grid tied renewable energy sources during adverse grid fault condition. , 2016, , .		2
1451	Power flow control and power quality issues in distributed generation system. , 2016, , .		2
1452	An inverter-current-feedback based reactive power sharing method for parallel inverters in microgrid. , 2016, , .		1
1453	High-frequency six pulse DC link based bidirectional three-phase inverter without intermediate decoupling capacitor. , 2016, , .		2
1454	Impact of DFIG based wind energy conversion system on fault studies and power swings. , 2016, , .		2
1455	Analysis on interactive influences among control loops of multi inverters connected to weak-structured power system. , 2016, , .		0
1456	Challenges to grid synchronization of single-phase grid-connected inverters in Zero-Voltage Ride-Through Operation. , 2016, , .		5
1457	Exploitation of digital filters to advance the single-phase T/4 delay PLL system. , 2016, , .		6

#	Article	IF	Citations
1458	Control of single phase power inverter using model predictive controller for grid integrated renewable energy systems. , 2016, , .		3
1459	Research on control of three-phase grid-connection inverter under conditions of voltage distortion. , 2016, , .		2
1460	A virtual RC active damping method in weak grid for three-level three-phase grid-connected inverters. , 2016, , .		5
1461	Design and performance of single-phase grid inverter photovoltaic system for residential applications with maximum power point tracking. , 2016, , .		2
1462	Repetitive control for grid connected inverters with LCL filter under stationary frame. , 2016, , .		0
1463	A nested control strategy for single phase power inverter integrating renewable energy systems in a microgrid. , 2016, , .		3
1464	Modified single-carrier-based modulation technique for grid-connected three-level NPC converters. , 2016, , .		2
1465	Voltage stability analysis using a complete model of grid-connected voltage-source converters. , 2016, , .		9
1466	Performance enhancement of wind farm with distribution static compensator. , 2016, , .		0
1467	Hybrid fuzzy logic-artificial neural network controller for shunt active power filter. , 2016, , .		13
1468	Three-Phase, Grid-Connected Inverter Using Different Control Schemes. , 2016, , .		0
1469	Feedforward robust control based on LMIs applied to grid-connected converters. , 2016, , .		0
1470	Multi-frequency stationary frame grid synchronization using multiple reduced order generalized integrators. , 2016, , .		4
1471	Robust control based on state observer applied to grid-connected converters. , 2016, , .		2
1472	Determining optimal capacity of FESS using PSO to enhance stability of microgrid after islanding mode, considering investment costs. , 2016, , .		1
1473	Sliding-mode and proportional-resonant based control strategy for three-phase grid-connected LCL-filtered VSI. , 2016, , .		7
1474	Grid synchronization structure for wind converters under grid fault conditions. , 2016, , .		9
1475	Analysis of the three-level diode-clamped split-source inverter. , 2016, , .		22

#	Article	IF	Citations
1476	Mitigation of harmonic current produced by wind turbine throughout converter switching control. , 2016, , .		5
1477	Research on synchronous speed of voltage-controlled inverter. , 2016, , .		1
1478	Adaptive current control strategy based on system sensitivity for grid-connected LCL-filter inverter in weak grid. , 2016, , .		2
1479	A suitable mechanism for the interconnection phase of temporary coupling of adjacent microgrids. , 2016, , .		2
1482	Active harmonic filters: Control techniques review. , 2016, , .		18
1483	Electric spring enhanced decoupled dual function operation: bus voltage controller and renewable energy grid integration. , 2016, , .		1
1484	A graph theoretic characterization of perfect attackability and detection in Distributed Control Systems. , 2016, , .		3
1485	Coordinated control of a grid connected DC micro-grid with multiple renewable sources. , 2016, , .		1
1486	Control scheme of a Three-Phase Three-Level NPC qZ-Source inverter with LCL filter for RES applications. , 2016, , .		7
1487	Efficient finite control set-model predictive control for grid-connected photovoltaic inverters. , 2016, , .		14
1488	Optimal installation of multiple DG units using competitive swarm optimizer (CSO) algorithm. , 2016, , .		12
1489	Three-phase eight switch inverter with reduced common mode voltage for transformerless photovoltaic systems. , 2016, , .		2
1490	An overview of various grid synchronization techniques for single-phase grid integration of renewable distributed power generation systems. , 2016, , .		17
1491	Distributed generation integration and power quality improvement of SRM drive under various loading conditions. , 2016, , .		1
1492	An advanced current control compensation scheme to improve the microgrid power quality without using dedicated compensation devices. , 2016, , .		0
1493	Assessment of control methods for PV fed three phase VSI and its application to various loads. , 2016, , .		0
1494	Model predictive current control with modified synchronous detection technique for three-phase 3L-NPC multi-functional solar photovoltaic system. , 2016, , .		3
1495	Performance Analysis of Hybrid Network of Indian Traction Power System Using Renewable Energy Sources. , 2016, , .		4

#	Article	IF	Citations
1496	A novel 3-phase, transformerless H-8 topology with low variation in CMV to reduce leakage current. , 2016, , .		5
1497	Modeling and sliding mode control for three-phase voltage source inverters with vector operation. , 2016, , .		2
1498	Tracking performance oriented design of proportional-resonant controllers under finite control bandwidth and actuator delay. , 2016, , .		2
1499	Transient analysis of PV-based industrial microgrids between grid-connected and islanded modes. , 2016, , .		4
1500	Design and Implementation of a Three Phase Inverter for Renewable Energy Source with Unified Control Strategy. Energy Procedia, 2016, 90, 673-680.	1.8	6
1501	Discrete time optimal design for voltage prefilter in grid synchronization system from control perspective. , 2016, , .		0
1502	Design of a Switching Mode Three Phase Inverter. , 2016, , .		14
1503	Phase Synchronous Inverter for Microgrid System. , 2016, , .		3
1504	Low Noise Inverter for Poly Phase Microgrid System. , 2016, , .		5
1505	Design and control of a small-scale industrial microgrid in islanding mode. , 2016, , .		1
1506	A novel two degrees of freedom grid current regulation for single-phase LCL-type photovoltaic grid-connected inverter. , 2016, , .		2
1507	A decentralized control strategy for economic operation of autonomous AC microgrids. , 2016, , .		1
1508	A review of passive power filters for voltage-source converters. , 2016, , .		7
1509	Control architecture based on FPGA for a renewable energy system. , 2016, , .		1
1510	Harmonic current detection and suppression based on neural network. , 2016, , .		0
1511	Robust repetitive control with feedforward scheme for stand-alone inverter. , 2016, , .		1
1512	Single-phase rooftop photovoltaic based grid-interactive electricity system. , 2016, , .		5
1513	Analysis and control design of transformerless high gain, high efficient buck-boost DC-DC converters. , 2016, , .		6

#	Article	IF	Citations
1514	Flow disturbance suppression using cascade-type PIS control for a pneumatic vibration isolator. , 2016, , .		0
1515	Experimental verification of GEPLL architecture performance for grid connected inverter. , 2016, , .		2
1516	A modified Lyapunov-function based control strategy for three-phase grid-connected VSI with LCL filter. , 2016, , .		7
1517	A new backstepping finite time sliding mode control of grid connected PV system using multivariable dynamic VSC model. International Journal of Electrical Power and Energy Systems, 2016, 82, 314-330.	3.3	44
1518	Fault ride-through performance evaluation of an interleaved grid-connected converter employing low switching frequency. , 2016, , .		0
1519	Sensorless current rebuilding strategy in a single phase bridgeless PFC. , 2016, , .		2
1520	A voltage independent islanding detection method and low voltage ride through of a two-stage PV inverter. , 2016, , .		6
1521	Coordinated control of multiple Multi-Function Grid connected Converters for power quality improvement in micro-grid applications. , 2016, , .		4
1522	Unified Unbalanced Synchronous Reference Frame Current Control for Single-Phase Grid-Connected Voltage-Source Converters. IEEE Transactions on Industrial Electronics, 2016, 63, 5425-5436.	5.2	40
1523	Benchmarking of constant power generation strategies for single-phase grid-connected Photovoltaic systems. , 2016, , .		18
1524	Air Conditioning (A/C) Startup Simulator for Evaluating Nanogrid Operation. , 2016, , .		0
1525	Effect of grid inductance on grid current quality of parallel grid-connected inverter system with output LCL filter and closed-loop control. , 2016, , .		8
1526	A self-adaptive power balance control strategy for PV inverters in islanded microgrids. , 2016, , .		8
1527	Modeling three-phase grid-connected inverter system using complex vector in synchronous dq reference frame and analysis on the influence of tuning parameters of synchronous frame PI controller. , 2016, , .		6
1528	Single-Loop Current Sensorless Control for Half-Bridge Based AC/DC Converter. IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India), 2016, 33, 662-673.	2.1	11
1529	Experimental Validation of Active Power Filtering with a Simple Robust Control. Electric Power Components and Systems, 2016, 44, 1163-1176.	1.0	2
1530	An autonomous power management strategy based on DC bus signaling for solid-state transformer interfaced PMSG wind energy conversion system. , 2016, , .		9
1531	Control of three-level T-type inverter based grid connected PV system. , 2016, , .		14

#	Article	IF	Citations
1532	Predictive Pulse-Pattern Current Modulation Scheme for Harmonic Reduction in Three-Phase Multidrive Systems. IEEE Transactions on Industrial Electronics, 2016, 63, 5932-5942.	5.2	25
1533	Design of a Multipulse High-Magnetic-Field System Based on Flywheel Energy Storage. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.1	9
1534	An Enhanced Power Sharing Scheme for Voltage Unbalance and Harmonics Compensation in an Islanded AC Microgrid. IEEE Transactions on Energy Conversion, 2016, 31, 1037-1050.	3.7	161
1535	A novel topology and control strategy for a soft-switched single-phase grid connected inverter. Journal of Electrical Systems and Information Technology, 2016, 3, 81-93.	1.2	4
1536	Improved repetitive control scheme for gridâ€connected inverter with frequency adaptation. IET Power Electronics, 2016, 9, 883-890.	1.5	35
1537	Model Predictive Control Applied to an Improved Five-Level Bidirectional Converter. IEEE Transactions on Industrial Electronics, 2016, 63, 5879-5890.	5.2	51
1538	Closed loop control of novel transformer-less inverter topology for single phase grid connected photovoltaic system. , 2016, , .		14
1539	Synchronizing nonlinear complex networks via switching disconnected topology. Automatica, 2016, 70, 189-194.	3.0	61
1540	A new DSC-PLL using recursive discrete fourier transform for robustness to frequency variation. , 2016, , .		3
1541	Overshoot control of the electromagnetic torque during fault recovery for an SCIG with a STATCOM. , 2016, , .		1
1542	On stability of islanded low-inertia microgrids. , 2016, , .		31
1543	Future perspectives of sustainable manufacturing and applications based on research databases. International Journal of Precision Engineering and Manufacturing, 2016, 17, 1249-1263.	1.1	19
1544	Performance evaluation of interleaved highâ€gain converter configurations. IET Power Electronics, 2016, 9, 1852-1861.	1.5	14
1545	Space vector pulse width modulated inverter for grid coupled Photovoltaic system at the distribution level. , 2016, , .		0
1546	Synchronization of coupled Hindmarsh-Rose neurons: Effects of an exogenous parameter**Financially supported by Mexican National Council for Science and Technology (CONACYT).. IFAC-PapersOnLine, 2016, 49, 84-89.	0.5	5
1547	Microgrid control system based on an Adaptive Notch Filter power processor. , 2016, , .		3
1548	Sensorless reserved power control strategy for two-stage grid-connected Photovoltaic systems. , 2016, , .		16
1549	Modeling and Experimental Investigation on Vector Control of Grid-connected Inverter-Based Distributed Generation. Distributed Generation and Alternative Energy Journal, 2016, 31, 6-26.	1.1	3

#	Article	IF	Citations
1550	A survey on modeling of microgridsâ€"From fundamental physics to phasors and voltage sources. Automatica, 2016, 74, 135-150.	3.0	196
1551	Study and implementation of synchronization algorithm in three phase grid connected PV system. , 2016, , .		2
1552	Experimental set-up of DC PEV charging station supported by open and interoperable communication technologies. , 2016, , .		7
1553	Single-phase synchronization for traction active rectifier. , 2016, , .		7
1554	Hierarchical plug-in EV control based on primary frequency response in interconnected smart grid. , 2016, , .		73
1555	Electric Vehicle Charging Stations Feeded by Renewable: PV and Train Regenerative Braking. IEEE Latin America Transactions, 2016, 14, 3262-3269.	1.2	57
1556	Distributed Generation. , 2016, , 285-322.		1
1557	A modified grid voltage feedforward method to improve the stability-robustness of the grid-connected voltage source converter under weak grid conditions. , 2016, , .		3
1558	A design and implementation of FPGA-based real-time simulator for distribution system with DG integration. , 2016, , .		3
1559	Structural Resemblance Between Droop Controllers and Phase-Locked Loops. IEEE Access, 2016, 4, 5733-5741.	2.6	36
1560	Periodic small-signal analysis as a tool to build transient stability models of VSC-based devices. , 2016, , .		3
1561	Tâ€type direct AC/AC converter structure. IET Power Electronics, 2016, 9, 1426-1436.	1.5	16
1562	Three-phase grid connected PV inverters using the proportional resonance controller. , 2016, , .		15
1563	Efficient power sharing approach for photovoltaic generation based microgrids. IET Renewable Power Generation, 2016, 10, 973-987.	1.7	23
1564	Adaptive noise cancellation based harmonic elimination in grid integrated photovoltaic system. IET Renewable Power Generation, 2016, 10, 1096-1104.	1.7	23
1565	Seamless transfer control strategy for three-phase inverter in microgrid. , 2016, , .		7
1566	Single-phase 3L PR controlled qZS inverter connected to the distorted grid. , 2016, , .		8
1567	Three-level operation of the split-source inverter using the flying capacitors topology. , 2016, , .		9

#	Article	IF	Citations
1568	Autonomous and high stability margin power sharing control method for multiple S3R power systems. , 2016, , .		1
1569	Control and Analysis of Engine Governor for Improved Stability of DC Microgrid Against Load Disturbance. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2016, 4, 1247-1258.	3.7	7
1570	Design and control of grid synchronization of renewable energy sources. , 2016, , .		5
1571	From Wind to the Electric Grid: Comprehensive Modeling of Wind Turbine Systems. IEEE Industry Applications Magazine, 2016, 22, 73-84.	0.3	18
1572	Grid integration of 10kW solar panel. , 2016, , .		17
1573	Modelling and control design of a dual Buck-Boost AC/DC converter used in the DC Nano-grid. , 2016, , .		2
1574	Phase angle calculation dynamics of typeâ€4 wind turbines in rms simulations during severe voltage dips. IET Renewable Power Generation, 2016, 10, 1069-1186.	1.7	2
1575	Cost effective design of bidirectional energy management topology. , 2016, , .		0
1577	Power Converter Schemes for Small Scale Wind Energy Conversion Systems - Review, a Systematic Classification Based on Isolation Transformer and Generator Side Rectifier. , 2016, , .		5
1578	Current control of three-phase grid-connected PV inverters using adaptive PR controller. , 2016, , .		13
1579	Optimal controllers design in indirect current control system of active DC-Traction substation. , 2016, , .		17
1580	Concurrent placement of distributed generation resources and capacitor banks in distribution systems. , 2016, , .		5
1581	Condition monitoring of permanent magnet synchronous generator for wind turbine applications. , 2016, , .		2
1582	Inherent damping of single-loop digitally controlled voltage source inverters with LCL filters. , 2016, , .		2
1583	Improved Phase Lock Loop system for grid connected renewable energy sources under distorted conditions. , 2016, , .		3
1584	Control of Grid Connected Photovoltaic System Using Three-Level T-Type Inverter. International Journal of Emerging Electric Power Systems, 2016, 17, 377-384.	0.6	3
1585	Enhancing output power of PV array operating under non-uniform conditions. , 2016, , .		4
1586	Smart power grid synchronization with Fault Tolerant nonlinear estimation. , 2016, , .		3

#	Article	IF	Citations
1587	A power decoupling control strategy for droop controlled inverters and virtual synchronous generators. , 2016, , .		4
1588	Control strategy of virtual synchronous generator based on virtual impedance and band-pass damping. , 2016, , .		7
1589	Power oscillation analysis and control of threeâ€phase gridâ€connected voltage source converters under unbalanced grid faults. IET Power Electronics, 2016, 9, 2162-2173.	1.5	44
1590	Virtual Unit Delay for digital frequency adaptive T/4 Delay Phase-Locked Loop system. , 2016, , .		14
1591	A simple model predictive power control for three-phase AC/DC converters. , 2016, , .		1
1592	A robust control strategy for a class of distributed network with transmission delays. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2016, 35, 1786-1813.	0.5	10
1593	Steady-State Dead-Time Compensation in VSI. IEEE Transactions on Industrial Electronics, 2016, 63, 5858-5866.	5.2	50
1594	A fault tolerant topology of inverter for micro-grid. , 2016, , .		1
1595	Digital protection of LVDC and integration of Distributed generation. , 2016, , .		1
1596	Quad quadrant bidirectional DC/DC converter for electric vehicles with high gain voltage. , 2016, , .		4
1597	An improved active frequency drift anti-islanding detection method. , 2016, , .		4
1598	Hybrid damping adaptive control scheme for gridâ€connected inverters in a weak grid. IET Power Electronics, 2016, 9, 2760-2768.	1.5	15
1599	Startup strategy for grid connected PV micro inverter. , 2016, , .		3
1600	Dynamic state estimation enabled preditive inverter control. , 2016, , .		2
1601	Modeling of grid-connected quasi-Z-source series resonant topology based microinverter. , 2016, , .		3
1602	Evaluation of the hierarchical control of distributed Energy Storage Systems in islanded Microgrids based on Std IEC/ISO 62264. , 2016, , .		5
1603	Dual-loop Hâˆž controller design for a grid-connected single-phase photovoltaic system. Solar Energy, 2016, 139, 640-649.	2.9	13
1604	An improved delayed signal cancellation PLL for fast grid synchronization under distorted and unbalanced grid condition. , 2016, , .		2

#	Article	IF	Citations
1605	Active damping control of multiple resonances for grid-connected inverter with long transmission cable. , 2016, , .		7
1606	Space vector modulation based control strategy of three-level inverter for separate MPPTs in photovoltaic system. , 2016, , .		8
1607	A novel method for frequency observation applied to droop control on grid-connected inverter. , 2016, , .		0
1608	Integration of AC and DC sources using multi-source fed power electronic transformer (MSF-PET) for modern power distribution system applications. , 2016, , .		3
1609	Overview of advanced control technology for wind power generation. , 2016, , .		4
1610	Model predictive power control approach for three-phase single-stage grid-tied PV module-integrated converter. , 2016, , .		8
1611	Proportional reactive power sharing for islanded microgrids. , 2016, , .		6
1612	Active power filter with model based predictive current control in natural and dq frame. , 2016, , .		3
1613	Challenges of Power Converter Operation and Control Under Ferroresonance Conditions. IEEE Transactions on Power Delivery, 2016, , 1-1.	2.9	2
1614	A low-voltage ride-through strategy for three-phase distributed generation inverters during voltage sags. , 2016, , .		1
1615	Active damping-based control for grid-connected LCL-filtered inverter with capacitor voltage inertial feedback. , 2016, , .		5
1616	Impedance modeling of three-phase grid-connected inverters and analysis of interaction stability in grid-connected system. , 2016, , .		6
1617	Improved control strategy for PI-R current of DFIG considering voltage and current harmonics compensation. IOP Conference Series: Earth and Environmental Science, 2016, 40, 012025.	0.2	0
1618	Current harmonics reduction of three phase grid connected pulse width modulated voltage source inverter by hysteresis current controller with offset band. , 2016, , .		2
1619	Simultaneous charging and discharging integrating EV for V2G and G2V. , 2016, , .		3
1620	Design, analysis and implementation of a four-tier centralized control architecture for intelligent operation of grid-connected microgrids. , 2016, , .		6
1621	Charging management of grid integrated battery for overcoming the intermittency of RE sources. , 2016, , .		6
1622	Control of low voltage microgrid in autonomous operation mode. , 2016, , .		1

#	Article	IF	Citations
1623	Regulator reconstruction strategy of grid-connected inverter in weak grid. , 2016, , .		3
1624	Performance comparison of most prevalent wind energy conversion systems. , 2016, , .		5
1625	Interconnection of renewables to the utility grid by three phase pulse width modulated voltage source inverter without phase locked loop. , 2016, , .		0
1626	Fuzzy control based APF with DG integration for power quality improvement in disribution system. , 2016, , .		2
1627	On the duality of globally constrained separable problems and its application to distributed signal processing. , 2016, , .		2
1628	Modeling of photovoltaic array and control of grid connected photovoltaic system to provide quality power to grid. , 2016, , .		4
1629	A grid-connected WECS with power limiting control. , 2016, , .		1
1630	New inverter control for balancing standalone micro-grid phase voltages: A review on MG power quality improvement. Renewable and Sustainable Energy Reviews, 2016, 63, 520-532.	8.2	36
1631	Enhancement of Synchronizability in Networks with Community Structure through Adding Efficient Inter-Community Links. IEEE Transactions on Network Science and Engineering, 2016, 3, 106-116.	4.1	22
1632	Self-synchronization operation of global synchronous pulsewidth modulation with communication fault tolerant and simplified calculation capabilities. , 2016, , .		7
1633	Three-Phase Harmonic and Sequence Components Measurement Method Based on mSDFT and Variable Sampling Period Technique. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 1761-1772.	2.4	26
1634	Stability Analysis and Robust Design of <italic>LCL</italic> With Multituned Traps Filter for Grid-Connected Converters. IEEE Transactions on Industrial Electronics, 2016, 63, 6823-6834.	5.2	43
1635	Simultaneous voltage and current compensation of the 3-phase electric spring with decomposed voltage control. , 2016, , .		1
1636	Multifrequency small-signal model of voltage source converters connected to a weak grid for stability analysis. , 2016, , .		8
1637	Effect of decoupling terms on the performance of PR current controllers implemented in stationary reference frame. , 2016, , .		3
1638	A stability analysis and efficiency improvement of synchronverter. , 2016, , .		24
1639	Three-phase multiple harmonic sequence detection based on Generalized Delayed Signal Superposition. , 2016, , .		1
1640	Fixed-frequency generalized peak current control (GPCC) for inverters. , 2016, , .		1

#	Article	IF	Citations
1641	Current control techniques for three-phase grid interconnection of renewable power generation systems: A review. Solar Energy, 2016, 135, 29-42.	2.9	60
1642	Standalone micro grid power quality improvement using inertia and power reserves of the wind generation systems. Renewable Energy, 2016, 97, 572-584.	4.3	10
1643	Impact of low pass filters of the droop control on converter-interfaced DERs of an islanded microgrid. , 2016, , .		2
1644	Dynamic modeling of IEEE test systems including renewable energy sources. , 2016, , .		4
1645	Strategic optimisation of microgrid by evolving a unitised regenerative fuel cell system operational criterion. International Journal of Sustainable Energy, 2016, 35, 722-733.	1.3	6
1646	Predictive Duty Cycle Control of Three-Phase Active-Front-End Rectifiers. IEEE Transactions on Power Electronics, 2016, 31, 698-710.	5.4	112
1647	Analysis of D-Q Small-Signal Impedance of Grid-Tied Inverters. IEEE Transactions on Power Electronics, 2016, 31, 675-687.	5.4	875
1648	Using Frequency Coupling Matrix Techniques for the Analysis of Harmonic Interactions. IEEE Transactions on Power Delivery, 2016, 31, 112-121.	2.9	20
1649	A Synchronization Method for Single-Phase Grid-Tied Inverters. IEEE Transactions on Power Electronics, 2016, 31, 2139-2149.	5.4	106
1650	Blade pitch control malfunction simulation in a wind energy conversion system with MPC five-level converter. Renewable Energy, 2016, 89, 339-350.	4.3	14
1651	Global synchronous discontinuous pulse width modulation method with fast calculation capability for distributed three-phase inverters. Journal of Modern Power Systems and Clean Energy, 2016, 4, 103-112.	3.3	4
1652	Performance of the Phaselet Frames-Based Digital Protection for Distributed Generation Units. IEEE Transactions on Industry Applications, 2016, 52, 2095-2109.	3.3	20
1653	Real-time management solutions for a smart polygeneration microgrid. Energy Conversion and Management, 2016, 112, 11-20.	4.4	26
1654	Fast reactive current detection method for singleâ€phase gridâ€connected inverters. IET Power Electronics, 2016, 9, 401-407.	1.5	5
1655	A Modified Reference of an Intermediate Bus Capacitor Voltage-Based Second-Harmonic Current Reduction Method for a Standalone Photovoltaic Power System. IEEE Transactions on Power Electronics, 2016, 31, 5562-5573.	5.4	35
1656	Distributed Generation Placement Planning Modeling Feederâ€™s Failure Rate and Customerâ€™s Load Type. IEEE Transactions on Industrial Electronics, 2016, 63, 1598-1606.	5.2	56
1657	Synchronization control of single-phase full bridge photovoltaic grid-connected inverter. Optik, 2016, 127, 1724-1728.	1.4	12
1658	Internal electrical protection of wind turbine with doubly fed induction generator. Renewable and Sustainable Energy Reviews, 2016, 55, 840-855.	8.2	38

#	Article	IF	Citations
1659	Advanced Accelerated Power Cycling Test for Reliability Investigation of Power Device Modules. IEEE Transactions on Power Electronics, 2016, , 1-1.	5.4	118
1660	Efficient Single Phase Transformerless Inverter for Grid-Tied PVG System With Reactive Power Control. IEEE Transactions on Sustainable Energy, 2016, 7, 1205-1215.	5.9	78
1661	Small-Signal Modeling and Parameters Design for Virtual Synchronous Generators. IEEE Transactions on Industrial Electronics, 2016, 63, 4292-4303.	5.2	494
1662	A single phase photovoltaic inverter control for grid connected system. Sadhana - Academy Proceedings in Engineering Sciences, 2016, 41, 15-30.	0.8	28
1664	A comprehensive review of synchronization methods for grid-connected converters of renewable energy source. Renewable and Sustainable Energy Reviews, 2016, 59, 1471-1481.	8.2	123
1665	Mitigation of transformer-energizing inrush current using grid-connected photovoltaic system. International Journal of Electrical Power and Energy Systems, 2016, 79, 312-321.	3.3	7
1666	Modeling and control of grid connected intelligent hybrid photovoltaic system using new hybrid fuzzy-neural method. Solar Energy, 2016, 127, 1-18.	2.9	45
1667	Integration of 750 MW renewable solar power to national grid of Pakistan â€“ An economic and technical perspective. Renewable and Sustainable Energy Reviews, 2016, 59, 1209-1219.	8.2	14
1668	Super-Twisting Sliding Control Design of Three-Phase Inverter for Stand-Alone Distributed Generation Systems. Journal of Control, Automation and Electrical Systems, 2016, 27, 179-188.	1.2	14
1669	Designing Invertersâ€™ Current Controllers With Resonance Frequencies Cancellation. IEEE Transactions on Industrial Electronics, 2016, 63, 3072-3080.	5.2	34
1670	Smart Power Grid Synchronization With Fault Tolerant Nonlinear Estimation. IEEE Transactions on Power Systems, 2016, 31, 4806-4816.	4.6	39
1671	On Designing Event-Triggered Schemes for Networked Control Systems Subject to One-Step Packet Dropout. IEEE Transactions on Industrial Informatics, 2016, 12, 902-910.	7.2	45
1672	Voltage Dynamics of Current Control Time-Scale in a VSC-Connected Weak Grid. IEEE Transactions on Power Systems, 2016, 31, 2925-2937.	4.6	163
1673	Diagnosis of singleâ€phase openâ€line fault in threeâ€phase PWM rectifier with LCL filter. IET Generation, Transmission and Distribution, 2016, 10, 1410-1421.	1.4	11
1674	Modeling, control, and simulation of grid connected intelligent hybrid battery/photovoltaic system using new hybrid fuzzy-neural method. ISA Transactions, 2016, 63, 448-460.	3.1	32
1675	A Synchronization Method for Three-Phase Grid-Connected Inverters Using Levenberg-Marquardt Technique. Lecture Notes in Electrical Engineering, 2016, , 249-260.	0.3	0
1676	Global Synchronous Pulse Width Modulation of Distributed Inverters. IEEE Transactions on Power Electronics, 2016, 31, 6237-6253.	5.4	47
1677	Current Harmonics From Single-Phase Grid-Connected Invertersâ€”Examination and Suppression. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2016, 4, 221-233.	3.7	115

#	Article	IF	Citations
1678	Generalized Predictive Current Control (GPCC) for Grid-Tie Three-Phase Inverters. IEEE Transactions on Industrial Electronics, 2016, 63, 4475-4484.	5.2	81
1679	On the Interplay of Distributed Power Loss Reduction and Communication in Low Voltage Microgrids. IEEE Transactions on Industrial Informatics, 2016, 12, 322-337.	7.2	13
1680	Power Converters and Control of Grid-Connected Photovoltaic Systems. , 2016, , 497-504.		3
1681	A Novel Approach to Solve Power Flow for Islanded Microgrids Using Modified Newton Raphson With Droop Control of DG. IEEE Transactions on Sustainable Energy, 2016, 7, 493-503.	5.9	195
1682	A Distributed Feedforward Approach to Cooperative Control of AC Microgrids. IEEE Transactions on Power Systems, 2016, 31, 4057-4067.	4.6	71
1683	Power control flexibilities for gridâ€connected multiâ€functional photovoltaic inverters. IET Renewable Power Generation, 2016, 10, 504-513.	1.7	150
1684	Performance evaluation of WPT based islanding detection for grid-connected PV systems. International Journal of Electrical Power and Energy Systems, 2016, 78, 537-546.	3.3	29
1685	Control techniques for three-phase four-leg voltage source inverters in autonomous microgrids: A review. Renewable and Sustainable Energy Reviews, 2016, 54, 1592-1610.	8.2	112
1686	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
1687	Comparison of Dynamic Characteristics Between Virtual Synchronous Generator and Droop Control in Inverter-Based Distributed Generators. IEEE Transactions on Power Electronics, 2016, 31, 3600-3611.	5.4	833
1688	Controller Area Network Assisted Grid Synchronization of a Microgrid With Renewable Energy Sources and Storage. IEEE Transactions on Smart Grid, 2016, 7, 1442-1452.	6.2	56
1689	Pseudo-Derivative-Feedback Current Control for Three-Phase Grid-Connected Inverters With <italic>LCL </italic> Filters. IEEE Transactions on Power Electronics, 2016, 31, 3898-3912.	5.4	49
1690	Voltage and power control used to stabilise the distributed generation system for standâ€alone or gridâ€connected operation. IET Power Electronics, 2016, 9, 491-501.	1.5	22
1691	Experimental Validation for Impedance-Based Small-Signal Stability Analysis of Single-Phase Interconnected Power Systems With Grid-Feeding Inverters. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2016, 4, 103-115.	3.7	63
1692	Inducverters: PLL-Less Converters With Auto-Synchronization and Emulated Inertia Capability. IEEE Transactions on Smart Grid, 2016, 7, 1660-1674.	6.2	109
1693	Enhancing Quality of Power to Sensitive Loads With Microgrid. IEEE Transactions on Industry Applications, 2016, 52, 360-368.	3.3	34
1694	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
1695	A comprehensive study on low-carbon impact of distributed generations on regional power grids: A case of Jiangxi provincial power grid in China. Renewable and Sustainable Energy Reviews, 2016, 53, 766-778.	8.2	29

#	Article	IF	Citations
1696	<italic>LLCL</italic>-Filtered Grid Converter With Improved Stability and Robustness. IEEE Transactions on Power Electronics, 2016, 31, 3958-3967.	5.4	69
1697	Highly Accurate Derivatives for <italic>LCL</italic>-Filtered Grid Converter With Capacitor Voltage Active Damping. IEEE Transactions on Power Electronics, 2016, 31, 3612-3625.	5.4	190
1698	High-Performance Constant Power Generation in Grid-Connected PV Systems. IEEE Transactions on Power Electronics, 2016, 31, 1822-1825.	5.4	208
1699	Secondary Control Strategies for Frequency Restoration in Islanded Microgrids With Consideration of Communication Delays. IEEE Transactions on Smart Grid, 2016, 7, 1430-1441.	6.2	254
1700	Optimum Reconfiguration of Droop-Controlled Islanded Microgrids. IEEE Transactions on Power Systems, 2016, 31, 2144-2153.	4.6	78
1701	Control Strategy to Maximize the Power Capability of PV Three-Phase Inverters During Voltage Sags. IEEE Transactions on Power Electronics, 2016, 31, 3314-3323.	5.4	134
1702	A control approach for the operation of DG units under variations of interfacing impedance in grid-connected mode. International Journal of Electrical Power and Energy Systems, 2016, 74, 1-8.	3.3	12
1703	Control of Single-Phase Power Converters Connected to Low-Voltage Distorted Power Systems With Variable Compensation Objectives. IEEE Transactions on Power Electronics, 2016, 31, 2039-2052.	5.4	60
1704	Use of Boundary Control With Second-Order Switching Surface to Reduce the System Order for Deadbeat Controller in Grid-Connected Inverter. IEEE Transactions on Power Electronics, 2016, 31, 2638-2653.	5.4	53
1705	Review of Power Sharing Control Strategies for Islanding Operation of AC Microgrids. IEEE Transactions on Smart Grid, 2016, 7, 200-215.	6.2	773
1706	A Hybrid Estimator for Active/Reactive Power Control of Single-Phase Distributed Generation Systems With Energy Storage. IEEE Transactions on Power Electronics, 2016, 31, 2919-2936.	5.4	49
1707	Active Damping of <italic>LLCL</italic>-Filter Resonance Based on <italic>LC</italic>-Trap Voltage or Current Feedback. IEEE Transactions on Power Electronics, 2016, 31, 2337-2346.	5.4	44
1708	Control and Experiment of an H-Bridge-Based Three-Phase Three-Stage Modular Power Electronic Transformer. IEEE Transactions on Power Electronics, 2016, 31, 2002-2011.	5.4	85
1709	Impedance-Based Analysis of Grid-Synchronization Stability for Three-Phase Paralleled Converters. IEEE Transactions on Power Electronics, 2016, 31, 26-38.	5.4	423
1710	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
1711	Frequency adaptability of harmonics controllers for grid-interfaced converters. International Journal of Control, 2017, 90, 3-14.	1.2	14
1712	A Novel Energy Function-Based Stability Evaluation and Nonlinear Control Approach for Energy Internet. IEEE Transactions on Smart Grid, 2017, 8, 1195-1210.	6.2	105
1713	DC Power-Line Communication Based on Power/Signal Dual Modulation in Phase Shift Full-Bridge Converters. IEEE Transactions on Power Electronics, 2017, 32, 693-702.	5.4	59

#	Article	IF	Citations
1714	A Time Delay Compensation Method Based on Area Equivalence For Active Damping of an <italic>LCL</italic> -Type Converter. IEEE Transactions on Power Electronics, 2017, 32, 762-772.	5.4	134
1715	Simulation and control of intelligent photovoltaic system using new hybrid fuzzy-neural method. Neural Computing and Applications, 2017, 28, 2501-2518.	3.2	26
1716	A Demodulation-Based Technique for Robust Estimation of Single-Phase Grid Voltage Fundamental Parameters. IEEE Transactions on Industrial Informatics, 2017, 13, 166-175.	7.2	26
1717	Nonlinear adaptive control of grid-connected three-phase inverters for renewable energy applications. International Journal of Control, 2017, 90, 53-67.	1.2	21
1718	A Graph-Theoretic Characterization of Perfect Attackability for Secure Design of Distributed Control Systems. IEEE Transactions on Control of Network Systems, 2017, 4, 60-70.	2.4	52
1719	A Digital Current Control Technique for Grid-Connected AC/DC Converters Used for Energy Storage Systems. IEEE Transactions on Power Electronics, 2017, 32, 3970-3988.	5.4	43
1720	A Framework for Robust Assessment of Power Grid Stability and Resiliency. IEEE Transactions on Automatic Control, 2017, 62, 1165-1177.	3.6	57
1721	A Non-unit Protection Scheme for DC Microgrid Based on Local Measurements. IEEE Transactions on Power Delivery, 2017, 32, 172-181.	2.9	237
1722	Offset-Free Direct Power Control of DFIG Under Continuous-Time Model Predictive Control. IEEE Transactions on Power Electronics, 2017, 32, 2265-2277.	5.4	78
1723	Design of Distributed LTI Observers for State Omniscience. IEEE Transactions on Automatic Control, 2017, 62, 561-576.	3.6	130
1724	Review of Active and Reactive Power Sharing Strategies in Hierarchical Controlled Microgrids. IEEE Transactions on Power Electronics, 2017, 32, 2427-2451.	5.4	621
1725	Parameter Design of a Novel Series-Parallel-Resonant <italic>LCL</italic> Filter for Single-Phase Half-Bridge Active Power Filters. IEEE Transactions on Power Electronics, 2017, 32, 200-217.	5.4	89
1726	A Family of Neutral-Point-Clamped Circuits of Single-Phase PV Inverters: Generalized Principle and Implementation. IEEE Transactions on Power Electronics, 2017, 32, 4307-4319.	5.4	49
1727	Disturbance rejection control of a fuel cell power plant in a grid-connected system. Control Engineering Practice, 2017, 60, 183-192.	3.2	59
1728	Stability analysis and concept extension of harmonic decoupling network for the three-phase grid synchronization systems. International Journal of Electrical Power and Energy Systems, 2017, 89, 1-10.	3.3	10
1729	Reactive Power Strategy of Cascaded Delta-Connected STATCOM Under Asymmetrical Voltage Conditions. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2017, 5, 784-795.	3.7	37
1730	A Sensorless Power Reserve Control Strategy for Two-Stage Grid-Connected PV Systems. IEEE Transactions on Power Electronics, 2017, 32, 8559-8569.	5.4	142
1731	An Integrated Trap-LCL Filter With Reduced Current Harmonics for Grid-Connected Converters Under Weak Grid Conditions. IEEE Transactions on Power Electronics, 2017, 32, 8446-8457.	5.4	66

#	Article	IF	Citations
1732	DQ Current Control of Voltage Source Converters With a Decoupling Method Based on Preprocessed Reference Current Feed-forward. IEEE Transactions on Power Electronics, 2017, 32, 8904-8921.	5.4	53
1733	Power quality enhancement of single phase grid tied inverters with model predictive current controller. Journal of Renewable and Sustainable Energy, 2017, 9, .	0.8	12
1734	Power grid enhanced resilience using proportional and derivative control with delayed feedback. European Physical Journal B, 2017, 90, 1.	0.6	8
1735	Characteristics and Restraining Method of Fast Transient Inrush Fault Currents in Synchronverters. IEEE Transactions on Industrial Electronics, 2017, 64, 7487-7497.	5.2	158
1736	A Concise Discrete Adaptive Filter for Frequency Estimation Under Distorted Three-Phase Voltage. IEEE Transactions on Power Electronics, 2017, 32, 9400-9412.	5.4	18
1737	A dâ€“q Voltage Droop Control Method With Dynamically Phase-Shifted Phase-Locked Loop for Inverter Paralleling Without Any Communication Between Individual Inverters. IEEE Transactions on Industrial Electronics, 2017, 64, 4591-4600.	5.2	20
1738	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
1739	Cost-Effective Grid-Connected Inverter for a Micro Combined Heat and Power System. IEEE Transactions on Industrial Electronics, 2017, 64, 5360-5367.	5.2	5
1740	Delta Power Control Strategy for Multistring Grid-Connected PV Inverters. IEEE Transactions on Industry Applications, 2017, 53, 3862-3870.	3.3	117
1741	Design and experimental investigation of digital model predictive current controller for single phase grid integrated photovoltaic systems. Renewable Energy, 2017, 108, 438-448.	4.3	23
1742	Distributed Power Control for Transient Stability of Multimachine Power Systems. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2017, 7, 383-392.	2.7	13
1743	Grid Interfaced Distributed Generation System With Modified Current Control Loop Using Adaptive Synchronization Technique. IEEE Transactions on Industrial Informatics, 2017, 13, 2634-2644.	7.2	56
1744	Adaptive intelligent techniques for microgrid control systems: A survey. International Journal of Electrical Power and Energy Systems, 2017, 90, 292-305.	3.3	110
1745	Parallel structure general repetitive controller for general gridâ€connected PWM converters. IET Power Electronics, 2017, 10, 338-347.	1.5	14
1746	Controlled power point tracking for autonomous operation of PMSG based wind energy conversion system. , 2017, , .		1
1747	Review, analysis and improving the utilization factor of a PV-grid connected system via HERIC transformerless approach. Renewable and Sustainable Energy Reviews, 2017, 73, 1061-1069.	8.2	26
1748	Comparative analysis of single phase transformerless inverter topologies for grid connected PV system. Solar Energy, 2017, 149, 245-271.	2.9	54
1749	Modelling, simulation and experimentation of grid tied inverter for wind energy conversion systems. , 2017, , .		5

#	Article	IF	Citations
1750	Modeling and Stability Analysis of DC-Link Voltage Control in Multi-VSCs With Integrated to Weak Grid. IEEE Transactions on Energy Conversion, 2017, 32, 1127-1138.	3.7	51
1751	Discrete time sliding mode control of single phase LCL grid-inverter. , 2017, , .		9
1752	Modeling and small-signal stability analysis of decentralized energy sources implementing Q(U) reactive power control. , 2017, , .		2
1753	An Improved Delayed Signal Cancellation PLL for Fast Grid Synchronization Under Distorted and Unbalanced Grid Condition. IEEE Transactions on Industry Applications, 2017, 53, 4985-4997.	3.3	78
1754	A framework for selection of grid-inverter synchronisation unit: Harmonics, phase-angle and frequency. Renewable and Sustainable Energy Reviews, 2017, 78, 210-219.	8.2	20
1755	Voltage Control in Distributed Generation Systems Based on Complex Network Approach. Energy Procedia, 2017, 110, 334-339.	1.8	5
1756	A Decentralized Control Strategy for Economic Operation of Autonomous AC, DC, and Hybrid AC/DC Microgrids. IEEE Transactions on Energy Conversion, 2017, 32, 1345-1355.	3.7	87
1757	SMC-DPC based active and reactive power control of grid-tied three phase inverter for PV systems. International Journal of Hydrogen Energy, 2017, 42, 17713-17722.	3.8	40
1758	Evaluation of the Interface Accuracy for Power Hardware-in-the-Loop Experiments. Electric Power Components and Systems, 2017, 45, 763-773.	1.0	3
1759	Virtual RLC active damping for grid-connected inverters with LCL filters. , 2017, , .		12
1760	An adaptive control strategy for power balance and the intermittency mitigation in battery-PV energy system at residential DC microgrid level. , 2017, , .		26
1761	Estimation of parameters in single phase grid connected and stand-alone inverter system. , 2017, , .		4
1762	Active and reactive power control method for three-phase PV module-integrated converter based on a single-stage inverter. , 2017, , .		6
1763	Improving weak grids adaptability of ZCZ-filtered grid-connected converters with delay-compensated capacitor-voltage feedforward control. , 2017, , .		0
1764	An efficient impedance stability analysis method for high-frequency stability of hybrid networking islanded-microgrid. , 2017, , .		2
1765	An active capacitor converter for improving robustness of the ZCZ-type grid-connected inverter against grid impedance variation. , 2017, , .		1
1766	Model Reference Adaptive Control Based Estimation of Equivalent Resistance and Reactance in Grid-Connected Inverters. IEEE Transactions on Energy Conversion, 2017, 32, 1407-1417.	3.7	22
1767	Low voltage ride-through of two-stage grid-connected photovoltaic systems through the inherent linear power-voltage characteristic. , 2017, , .		15

#	Article	IF	Citations
1768	Lifetime evaluation of PV inverters considering panel degradation rates and installation sites. , 2017, , .		6
1769	Power factor improvement using adaptive fuzzy logic control based D-STATCOM. , 2017, , .		1
1770	Damping Methods for Resonances Caused by LCL-Filter-Based Current-Controlled Grid-Tied Power Inverters: An Overview. IEEE Transactions on Industrial Electronics, 2017, 64, 7402-7413.	5.2	287
1771	Harmonic Suppression and Stability Enhancement for Parallel Multiple Grid-Connected Inverters Based on Passive Inverter Output Impedance. IEEE Transactions on Industrial Electronics, 2017, 64, 7587-7598.	5.2	80
1772	Influence of solar photovoltaic array on operation of grid-interactive fifteen-level modular multilevel converter with emphasis on power quality. Renewable and Sustainable Energy Reviews, 2017, 76, 1053-1065.	8.2	15
1773	Experimental Validation of Improved Control Strategy of Grid-interactive Power Converter for Wind Power System. Technology and Economics of Smart Grids and Sustainable Energy, 2017, 2, 1.	1.8	2
1774	Variable- and Fixed-Switching-Frequency-Based HCC Methods for Grid-Connected VSI With Active Damping and Zero Steady-State Error. IEEE Transactions on Industrial Electronics, 2017, 64, 7009-7018.	5.2	48
1775	Evolution of PV systems in Greece and review of applicable solutions for higher penetration levels. Renewable Energy, 2017, 109, 487-499.	4.3	57
1776	Design and Implementation of a Sensorless Multilevel Inverter With Reduced Part Count. IEEE Transactions on Power Electronics, 2017, 32, 6677-6683.	5.4	82
1777	Power Electronic Applications, Grid Codes, Power Quality Issues, and Electricity Markets for Distributed Generation. , 2017, , 631-684.		2
1778	Synchronization of oscillators through time-shifted common inputs. Physical Review E, 2017, 95, 032207.	0.8	19
1779	Power Electronic Transformer-Based Railway Traction Systems: Challenges and Opportunities. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2017, 5, 1237-1253.	3.7	164
1780	Control Strategy to Eliminate Impact of Voltage Measurement Errors on Grid Current Performance of Three-Phase Grid-Connected Inverters. IEEE Transactions on Industrial Electronics, 2017, 64, 7508-7519.	5.2	33
1781	A Single-Phase Transformerless Inverter With Charge Pump Circuit Concept for Grid-Tied PV Applications. IEEE Transactions on Industrial Electronics, 2017, 64, 5403-5415.	5.2	160
1782	Modified Cascaded Boundary-Deadbeat Control for a Virtually-Grounded Three-Phase Grid-Connected Inverter With LCL Filter. IEEE Transactions on Power Electronics, 2017, 32, 8163-8180.	5.4	32
1783	PV Single-Phase Grid-Connected Converter: DC-Link Voltage Sensorless Prospective. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2017, 5, 526-546.	3.7	66
1784	Improved PV Inverter Operating Range Using a Miniboost. IEEE Transactions on Power Electronics, 2017, 32, 8470-8485.	5.4	51
1785	Distribution System Modelling. Green Energy and Technology, 2017, , 21-28.	0.4	1

#	Article	IF	Citations
1787	FCS-MPC for grid-tied three-phase three-level NPC inverter with experimental validation. , 2017, , .		11
1788	Development of fault current limiters: A review. , 2017, , .		11
1789	Overview of technical specifications for grid-connected photovoltaic systems. Energy Conversion and Management, 2017, 152, 312-327.	4.4	72
1790	Equation-Based Object-Oriented modelling and simulation of large-scale Smart Grids with Modelica. IFAC-PapersOnLine, 2017, 50, 5542-5547.	0.5	7
1791	Low voltage ride-through capability improvement of photovoltaic systems using a novel hybrid control. Journal of Renewable and Sustainable Energy, 2017, 9, .	0.8	7
1794	A control strategy for suppressing harmonics and circulation in islanded microgrid. , 2017, , .		2
1795	A simple and effective time delay compensation method for grid-connected inverter with an LCL filter: Application to active damping method. , 2017, , .		6
1796	AkÂ±1-order harmonic repetitive controller for single-phase micro-grid power converter system with nonlinear loads. , 2017, , .		0
1798	LVRT control strategy for three-phase grid connected PV systems. , 2017, , .		5
1799	A Virtual Synchronous Control for Voltage-Source Converters Utilizing Dynamics of DC-Link Capacitor to Realize Self-Synchronization. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2017, 5, 1565-1577.	3.7	154
1800	Analysis and implement of the singleâ€phase voltageâ€controlled gridâ€connected inverter. IET Power Electronics, 2017, 10, 1344-1352.	1.5	3
1801	Energy harvesting and wireless data transmission system for rotor instrumentation in electrical machines. IET Power Electronics, 2017, 10, 1259-1267.	1.5	10
1802	Microgrid Control Problems and Related Issues. , 2017, , 1-42.		9
1803	Distributed Control Techniques in Microgrids. , 2017, , 43-62.		18
1804	A variable switching frequency control method for active front end multilevel rectifier. , 2017, , .		0
1805	Direct power control in pulse-width modulation rectifier based on virtual flux estimation. Advances in Mechanical Engineering, 2017, 9, 168781401769914.	0.8	4
1806	A dynamic system method for estimation of grid voltage parameters under unbalance and harmonic distortion operation. , 2017, , .		4
1808	An advanced current controller with reduced complexity and improved performance under abnormal grid conditions. , 2017, , .		15

#	Article	IF	Citations
1809	Design and Control of Grid Connected PV/Wind Hybrid System Using 3 Level VSC. , 2017, , .		5
1810	Coupled model for three-phase three-wire grid connected inverters through LCL filters. , 2017, , .		0
1812	Distance relay performance in future converter dominated power systems. , 2017, , .		3
1813	A practical and intelligent technique for coupling multiple neighboring microgrids at the synchronization stage. Sustainable Energy, Grids and Networks, 2017, 11, 13-25.	2.3	13
1814	Lyapunov law based model predictive control scheme for grid connected three phase three level neutral point clamped inverter. , 2017, , .		2
1815	Elimination of DC and harmonic current injection due to grid voltage measurement errors in three-phase grid-connected inverter. , 2017, , .		1
1816	Simulation and implementation of a PV inverter with improved THD. , 2017, , .		0
1817	A non-isolated dual-input DC-DC converter with wide input voltage range for renewable energy sources. , 2017, , .		3
1818	Design guidelines for MPCâ€based frequency regulation for islanded microgrids with storage, voltage, and ramping constraints. IET Renewable Power Generation, 2017, 11, 1200-1210.	1.7	16
1819	The synchronous switching of motor power supply from frequency converter to grid for an AC drives with field-oriented vector control. , 2017, , .		2
1820	Robust LCL filter design for grid-side current single-loop controlled grid-connected converters under weak power grids. , 2017, , .		0
1821	Unified digital periodic signal filters for power converter systems. , 2017, , .		2
1822	Interharmonics from grid-connected PV systems: Mechanism and mitigation. , 2017, , .		23
1823	Development of hybrid microgrid model for frequency stabilization. Wind Engineering, 2017, 41, 343-352.	1.1	4
1824	DC microgrid islands on ships. , 2017, , .		14
1825	Analysis and control of a medium voltage DC link interface between DFIG wind turbine system and weak power grid. , 2017, , .		3
1826	Performance improvement of grid interfaced three level diode clamped inverter under various power quality events. , 2017, , .		2
1827	An improved single phase transformerless inverter topology for grid connected PV system with reduce leakage current and reactive power capability. Solar Energy, 2017, 157, 133-146.	2.9	21

#	Article	IF	Citations
1828	Energy management strategy for renewable backup supply. , 2017, , .		6
1829	Control of a cascaded STATCOM with battery energy storage system under unbalanced and distorted grid voltage conditions. Journal of Renewable and Sustainable Energy, 2017, 9, .	0.8	1
1830	A novel soft-switched single-phase grid-connected current-source inverter. Cogent Engineering, 2017, 4, 1357866.	1.1	2
1831	Implementation of multi-sampling current control for grid-connected inverters using TI TMS320F28377x. , 2017, , .		5
1832	Single â€" Stage three â€" Phase grid â€" Connected photovoltaic system with maximum power tracking and active and reactive power control based on nonlinear control. , 2017, , .		1
1834	Modeling of wind energy system with MPPT control for DC microgrid. , 2017, , .		11
1835	Towards Quantitatively Understanding the Complexity of Social-Ecological Systemsâ€"From Connection to Consilience. International Journal of Disaster Risk Science, 2017, 8, 343-356.	1.3	4
1836	Performance of anti-islanding of an improved reactive power variation method based on positive feedfback. , 2017, , .		4
1837	Harmonic mitigation through advanced control methods for grid-connected renewable energy sources. , 2017, , .		11
1838	Active disturbance rejection control of LCL filtered grid-connected inverter using padÃ© approximation. , 2017, , .		0
1839	An Innovative Hybrid Wind-Solar and Battery-Supercapacitor Microgrid Systemâ€"Development and Optimization. IEEE Access, 2017, 5, 25897-25912.	2.6	116
1840	Model predictive current controller for grid connected PV inverter. , 2017, , .		3
1841	Simple fourâ€quadrant gridâ€tie control scheme with unity power factor rectifier mode for singleâ€phase DC/AC converters. IET Renewable Power Generation, 2017, 11, 1483-1493.	1.7	4
1842	Simultaneous active and reactive power control of single-phase grid connected battery storage system. , 2017, , .		2
1843	Development of control schemes for a cluster of PVâ€integrated houses in islanded mode. IET Renewable Power Generation, 2017, 11, 903-911.	1.7	10
1844	Enhanced operation of grid-connected photovoltaic system using interval type-2 fuzzy control. , 2017, , .		2
1845	PMSGâ€based wind energy conversion systems: survey on power converters and controls. IET Electric Power Applications, 2017, 11, 956-968.	1.1	172
1846	Comparison of â„‹<inf>2</inf> controllers based on LMIs for grid-connected converters. , 2017, , .		1

#	Article	IF	Citations
1847	Feasibility of fast transmission line voltage restoration by distributed generation. , 2017, , .		0
1848	A review of AC microgrid control methods. , 2017, , .		33
1849	Novel adaptive saturation scheme for photovoltaic inverters with ancillary service capability. , 2017, , .		1
1850	An Implementation of Hybrid Control Strategy for Distributed Generation System Interface Using Xilinx System Generator. IEEE Transactions on Industrial Informatics, 2017, 13, 2735-2745.	7.2	50
1851	Overview and comparative study of two control strategies used in 3-phase grid-connected inverters for renewable systems. Renewable Energy Focus, 2017, 19-20, 75-89.	2.2	9
1852	Disturbance rejection of real power flow by grid-tied inverter. , 2017, , .		2
1853	Instantaneous power calculation based on intrinsic frequency of single-phase virtual synchronous generator. Journal of Modern Power Systems and Clean Energy, 2017, 5, 970-978.	3.3	7
1854	Bandwidth oriented proportionalâ€integral controller design for backâ€toâ€back power converters in DFIG wind turbine system. IET Renewable Power Generation, 2017, 11, 941-951.	1.7	60
1855	Sliding mode control of reactive power for Three-Phase Grid-Connected photovoltaic System. , 2017, , .		3
1856	Distributed filtering and synchronization of diffusively stateâ€coupled heterogeneous systems. International Journal of Robust and Nonlinear Control, 2017, 27, 2357-2392.	2.1	1
1857	Type 2 fuzzy logic-based robust control strategy for power sharing in microgrids with uncertainties in operating conditions. International Transactions on Electrical Energy Systems, 2017, 27, e2294.	1.2	6
1858	Review and Classification of Control Systems in Grid-tied Inverters. Renewable and Sustainable Energy Reviews, 2017, 72, 1167-1176.	8.2	77
1859	Enhanced Instantaneous Power Theory for Control of Grid Connected Voltage Sourced Converters Under Unbalanced Conditions. IEEE Transactions on Power Electronics, 2017, 32, 6652-6660.	5.4	31
1860	Reliability analysis of Markov history-dependent repairable systems with neglected failures. Reliability Engineering and System Safety, 2017, 159, 134-142.	5.1	25
1861	A survey on behind the meter energy management systems in smart grid. Renewable and Sustainable Energy Reviews, 2017, 72, 1208-1232.	8.2	96
1862	Postdisaster Electric Power Recovery Using Autonomous Vehicles. IEEE Transactions on Automation Science and Engineering, 2017, 14, 62-72.	3.4	6
1864	Fixed Switching Frequency Generalized Peak Current Control (GPCC) of DCâ€“AC Converters. IEEE Transactions on Power Electronics, 2017, 32, 6605-6616.	5.4	12
1865	Power system stabilizer based on pointwise min-norm control law. Electric Power Systems Research, 2017, 143, 215-224.	2.1	9

#	Article	IF	Citations
1866	A high-speed shaft supported by magnetic bearings applied to energy systems. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2017, 39, 29-39.	0.8	5
1867	A New Approach for Soft Synchronization of Microgrid Using Robust Control Theory. IEEE Transactions on Power Delivery, 2017, 32, 1370-1381.	2.9	36
1868	Harmonic Instability Assessment Using State-Space Modeling and Participation Analysis in Inverter-Fed Power Systems. IEEE Transactions on Industrial Electronics, 2017, 64, 806-816.	5.2	193
1869	A Magnetic Integrated LLCL Filter for Grid-Connected Voltage-Source Converters. IEEE Transactions on Power Electronics, 2017, 32, 1725-1730.	5.4	60
1870	Static Modeling of Microgrids for Load Flow and Fault Analysis. IEEE Transactions on Power Systems, 2017, 32, 1990-2000.	4.6	24
1871	Adaptive Estimation of Three-Phase Grid Voltage Parameters Under Unbalanced Faults and Harmonic Disturbances. IEEE Transactions on Power Electronics, 2017, 32, 5613-5627.	5.4	30
1872	Adaptive threshold based new active islanding protection scheme for multiple PV based microgrid application. IET Generation, Transmission and Distribution, 2017, 11, 118-132.	1.4	26
1873	Non-linear load sharing and voltage harmonics compensation in islanded microgrids with converter interfaced units. International Transactions on Electrical Energy Systems, 2017, 27, e2237.	1.2	12
1874	Influence of phasor adjustment of harmonic sources on the allowable penetration level of distributed generation. International Journal of Electrical Power and Energy Systems, 2017, 87, 1-15.	3.3	10
1875	Assessment of a non linear current control technique applied to MMC-HVDC during grid disturbances. Renewable Energy, 2017, 101, 945-963.	4.3	23
1876	A Dual-Input Central Capacitor DC/DC Converter for Distributed Photovoltaic Architectures. IEEE Transactions on Industry Applications, 2017, 53, 305-318.	3.3	22
1877	Sampled-Time-Domain Analysis of a Digitally Implemented Current Controlled Inverter. IEEE Transactions on Industrial Electronics, 2017, 64, 217-227.	5.2	22
1878	Analysis and Design of Current Control Schemes for LCL-Type Grid-Connected Inverter Based on a General Mathematical Model. IEEE Transactions on Power Electronics, 2017, 32, 4395-4410.	5.4	107
1879	Study of a Current Control Strategy Based on Multisampling for High-Power Grid-Connected Inverters With an LCL filter. IEEE Transactions on Power Electronics, 2017, 32, 5023-5034.	5.4	74
1880	Real-time data monitoring with Zigbee wireless transmission applied to a WECS. , 2017, , .		1
1881	Investigation of the sideband effect for the LCL-type grid-connected inverter with high LCL resonance frequency. , 2017, , .		7
1882	An improved synchronous reference frame phase-locked loop for stand-alone variable speed constant frequency power generation systems. , 2017, , .		5
1883	Voltage feedforward active damping for LLCL filter based grid connected converters. , 2017, , .		1

#	Article	IF	Citations
1884	Control of grid connected DC-coupled hybrid microgrid. , 2017, , .		3
1885	Fast fault detection and isolation in low-voltage DC microgrids using fuzzy inference system. , 2017, , .		13
1886	Overview of grid connected converter synchronization techniques under different grid voltage conditions. , 2017, , .		2
1887	An improved dc-link voltage control for a three-phase PWM rectifier using an adaptive PI controller combined with load current estimation. , 2017, , .		9
1888	Performance analysis of point of common coupling with bridge type fault current limiter for distribution system. , 2017, , .		1
1889	Design, implementation and installation of a hybrid renewable energy system at Sultan Qaboos University. , 2017, , .		2
1890	Comparative study on Lyapunovâ€functionâ€based control schemes for singleâ€phase gridâ€connected voltageâ€source inverter with LCL filter. IET Renewable Power Generation, 2017, 11, 1473-1482.	1.7	44
1891	Single-phase grid-connected voltage source converter for LCL filter with grid-current feedback. , 2017, , .		10
1892	Load shedding control strategy for power system voltage regulation in distribution networks. , 2017, , .		1
1893	Improved transient performance properties of distributed generation grid side converter current controller under grid voltage harmonic distortion and unbalanced faults. , 2017, , .		2
1894	Improvement of frequency stability in power electronics-based power systems. , 2017, , .		5
1895	Space vector modulation based proportional resonant current controller with selective harmonics compensation for matrix converter systems. , 2017, , .		0
1896	Design of active low pass filters to reduce harmonic current emission. , 2017, , .		1
1897	A novel transient power control strategy for inverters in voltage control mode. , 2017, , .		1
1898	Comb filters for harmonics control in grid connected power electronic converters applications. , 2017, , .		2
1899	Effect of distributed generation on secondary level transmission system. , 2017, , .		1
1900	Enhancement of power quality for a transformerless single-phase grid-connected photovoltaic system using backstepping control approach. , 2017, , .		4
1901	A modified Q â€" V droop control for accurate reactive power sharing in distributed generation microgrid. , 2017, , .		3

#	Article	IF	Citations
1902	A secondary-control based fault current limiter for four-wire three phase inverter-interfaced DGs. , 2017, , .		5
1903	A voltage sensorless phase locked loop structure for single phase grid connected converter system. , 2017, , .		2
1904	Impedance shaping of grid-connected three-phase PV systems. , 2017, , .		0
1905	Enhancing harmonic rejection capability of grid-connected module-integrated converters. , 2017, , .		3
1906	Generalized droop-based control for an islanded microgrid. , 2017, , .		8
1907	An optimal control method of virtual angular acceleration to improve transient response based on virtual synchronous generator. , 2017, , .		3
1908	Performance evaluation of Low/Zero Voltage Ride-Through operations for single-stage single-phase Photovoltaic inverters. , 2017, , .		2
1909	A constant voltage-frequency control strategy based on dividing frequency complex virtual impedance. , 2017, , .		0
1910	A Systematic V2G Control Scheme Assisted by Negative Feedforward DC Voltage Stabilization for Frequency Response. IFAC-PapersOnLine, 2017, 50, 213-218.	0.5	1
1911	Modeling and analysis methods for assessing stability of microgrids. IFAC-PapersOnLine, 2017, 50, 5448-5455.	0.5	20
1912	A comprehensive study on distributed energy generation integration technology. , 2017, , .		1
1913	FPGA controlled DSTATCOM under distorted grid condition. , 2017, , .		1
1914	Control of ACâ€“DC grid side converter with single AC current sensor. Sadhana - Academy Proceedings in Engineering Sciences, 2017, 42, 2099-2112.	0.8	3
1915	Distributed robust adaptive finite-time voltage control for microgrids with uncertainty. , 2017, , .		4
1916	A fast robust PWM method for photovoltaic grid-connected inverter. , 2017, , .		1
1917	Modelling and analysis of grid-tied fuel cell system with synchronous reference frame control. , 2017, , .		5
1918	A review of the distributed generation landscape, key limitations of traditional microgrid concept & possible solution using an enhanced microgrid architecture. , 2017, , .		13
1919	Passivity-based output impedance shaping of LCL-filtered grid-connected inverters for suppressing harmonics and instabilities in complicated grid. , 2017, , .		2

#	Article	IF	Citations
1920	Research on DCâ€link voltage stabiliser for voltage source converter as connected to weak grid. Journal of Engineering, 2017, 2017, 2168-2172.	0.6	3
1921	Photovoltaic array based grid connected cascaded multilevel inverter using PR controller. , 2017, , .		4
1922	Modelling of multiâ€VSCs in DC voltage control timescale for smallâ€signal stability analysis. Journal of Engineering, 2017, 2017, 2057-2061.	0.6	3
1923	PCC voltage power quality restoring strategy based on the droop controlled gridâ€connecting microgrid. Journal of Engineering, 2017, 2017, 1399-1403.	0.6	5
1924	Second order generalized integrator based synchronization technique for polluted grid conditions. , 2017, , .		12
1925	Cooperative H<inf>âˆž</inf> tracking control for distributed grid-connected photovoltaic system. , 2017, , .		0
1926	Smart meter based selective harmonics compensation in buildings distribution systems with AC/DC microgrids. , 2017, , .		3
1927	Robust predictive current control with harmonic compensators for grid-connected VSI. , 2017, , .		0
1928	Suppression of synchronous resonance for VSGs. Journal of Engineering, 2017, 2017, 2574-2579.	0.6	30
1929	Implementation of LC and LCL passive filters for harmonic reduction in PV based renewable energy systems. , 2017, , .		11
1930	Stability enhancement of single-loop inverter-side current feedback controlled grid-connected inverters with LCL filters. , 2017, , .		4
1931	Advanced design of microgrid interface for multiple microgrids based on MMC and energy storage unit. Journal of Engineering, 2017, 2017, 2231-2235.	0.6	4
1932	High bandwidth sensorless synchronisation strategies for current regulated grid connected converters. , 2017, , .		3
1933	Adaptive vector control based waveâ€toâ€wire model of wave energy converters. IET Power Electronics, 2017, 10, 1111-1119.	1.5	2
1934	An FPGA-based aperiodic modulation strategy for EMI suppression in quasi-Z-source DC-DC converters. , 2017, , .		2
1935	Single-phase modified continuous input current switched boost inverter for high voltage gain. , 2017, , .		7
1936	Perturbation influences of parameters on dynamic performance of a virtual synchronous generator. , 2017, , .		7
1937	An improved active damping control in grid-connected converter system. , 2017, , .		4

#	Article	IF	Citations
1938	A simple DC bus voltage balancing control algorithm utilized in Vienna rectifiers. , 2017, , .		1
1939	Synchronization algorithm for three-phase voltages of an inverter and a grid. Optoelectronics, Instrumentation and Data Processing, 2017, 53, 364-370.	0.2	5
1940	A grid interfaced system with an adaptive DC link voltage. , 2017, , .		1
1941	Voltage and frequency synchronization of a low voltage inverter based microgrid. , 2017, , .		6
1942	Three-phase three-level inverter with reduced number of switches for stand-alone PV systems. , 2017, , .		7
1943	Impact of frequency estimation for VSC-based devices with primary frequency control. , 2017, , .		14
1944	Design and simulation of a fast DC recharging station for EV. , 2017, , .		8
1945	Voltage enhancement by basic active power curtailment of low-voltage grid-connected pv systems in view of complex power flow theories and real world testing and measurement results. , 2017, , .		2
1946	A hybrid adaptive droop control technique with embedded DC-bus voltage regulation for single-phase microgrids. , 2017, , .		2
1947	DC link voltage control of back-to-back converter robust to grid conditions. , 2017, , .		6
1948	Comprehensive harmonic current control in an islanded microgrid. , 2017, , .		1
1949	Uncertainty and disturbance estimator based current control of LCL-Filtered grid-connected inverters. , 2017, , .		2
1950	Leader selection for minimum-time consensus in multi-agent networks. , 2017, , .		1
1951	Impacts of PV array sizing on PV inverter lifetime and reliability. , 2017, , .		14
1952	Analysis on recursive discrete fourier transform FLL based on delayed signal cancellation-PLL method under frequency variations. , 2017, , .		1
1953	Investigation of direct matrix converter working as a versatile converter (AC/AC, AC/DC, DC/AC, DC/DC) Tj ETQq1 1 0.784314 rgBT /O		6
1954	Pre-synchronization method for grid-connection of virtual synchronous generators based micro-grids. , 2017, , .		9
1955	Robust observers and Pecora-Carroll synchronization with limited information. , 2017, , .		2

#	Article	IF	Citations
1956	Grid-connected power converters with distributed virtual power system inertia. , 2017, , .		28
1957	A common magnetic integration method for single-phase LCL filters and LLCL filters. , 2017, , .		6
1958	Nonlinear Adaptive Backstepping Controller Design for Three-Phase Grid-Connected Solar Photovoltaic Systems. Electric Power Components and Systems, 2017, 45, 2275-2292.	1.0	18
1959	Performance tradeoffs of dynamically controlled grid-connected inverters in low inertia power systems. , 2017, , .		15
1960	Mitigation of current harmonics in wind turbine system at distribution level using shunt active filters. , 2017, , .		4
1961	Optimal distributed generation placement using hybrid technique. , 2017, , .		6
1962	Comparison of the performance between stationary frame and synchronous rotating frame control of single-phase grid-connected inverter with LCL filter. , 2017, , .		1
1963	Lyapunov-function-based control method for three-phase grid-tied quasi-Z-source inverter with LCL filter. , 2017, , .		4
1964	Twoâ€step method for identifying photovoltaic gridâ€connected inverter controller parameters based on the adaptive differential evolution algorithm. IET Generation, Transmission and Distribution, 2017, 11, 4282-4290.	1.4	16
1965	Performance Improvement for Two-Stage Single-Phase Grid-Connected Converters Using a Fast DC Bus Control Scheme and a Novel Synchronous Frame Current Controller. Energies, 2017, 10, 389.	1.6	13
1966	Performance Enhancement of Wind Energy System with Distribution Static Compensator. Indian Journal of Science and Technology, 2017, 10, 1-8.	0.5	3
1967	The Most Economical Mode of Power Supply for Remote and Less Developed Areas in China: Power Grid Extension or Micro-Grid?. Sustainability, 2017, 9, 910.	1.6	19
1968	Overview of AC Microgrid Controls with Inverter-Interfaced Generations. Energies, 2017, 10, 1300.	1.6	151
1969	Virtual Inertia: Current Trends and Future Directions. Applied Sciences (Switzerland), 2017, 7, 654.	1.3	410
1970	An Efficient Phase-Locked Loop for Distorted Three-Phase Systems. Energies, 2017, 10, 280.	1.6	14
1971	A Time-Efficient Approach for Modelling and Simulation of Aggregated Multiple Photovoltaic Microinverters. Energies, 2017, 10, 465.	1.6	1
1972	Complementary Power Control for Doubly Fed Induction Generator-Based Tidal Stream Turbine Generation Plants. Energies, 2017, 10, 862.	1.6	15
1973	Finite Control Setâ€“Model Predictive Control with Modulation to Mitigate Harmonic Component in Output Current for a Grid-Connected Inverter under Distorted Grid Conditions. Energies, 2017, 10, 907.	1.6	22

#	Article	IF	Citations
1974	Synchronous Power Control of Grid-Connected Power Converters under Asymmetrical Grid Fault. Energies, 2017, 10, 950.	1.6	20
1975	Review of PV Generator as an Input Source for Power Electronic Converters. Energies, 2017, 10, 1076.	1.6	19
1976	Seamless Grid Synchronization of a Proportional+Resonant Control-Based Voltage Controller Considering Non-Linear Loads under Islanded Mode. Energies, 2017, 10, 1514.	1.6	13
1977	A Flexible Experimental Laboratory for Distributed Generation Networks Based on Power Inverters. Energies, 2017, 10, 1589.	1.6	18
1978	Combinational control scheme for utility interactive inverter system. , 2017, , .		1
1979	Large scale synchronization of hybrid distributed generation sources to the low voltage grids. , 2017, , .		0
1980	DC link voltage control of power conditioning unit during LVRT. , 2017, , .		1
1981	Dynamical analysis of chaos anti-synchronisation in bidirectionally coupled SMIB power system. , 2017, , .		0
1982	A novel fuzzy based transformer less PV inverter for reactive power control in grid connected PV system. , 2017, , .		1
1983	An on-line fault location technique for DC microgrid using transient measurements. , 2017, , .		14
1984	Small signal model of PV power generation system. , 2017, , .		3
1985	A computationally efficient current controller for simultaneous injection of both positive and negative sequences. , 2017, , .		9
1986	Grid Synchronization for Distributed Generations. , 2017, , 179-194.		7
1987	An improved synchronous reference frame current control strategy for a photovoltaic grid-connected inverter under unbalanced and nonlinear load conditions. PLoS ONE, 2017, 12, e0164856.	1.1	23
1988	Analysis of fault characteristics in DC microgrids for various converter topologies. , 2017, , .		20
1989	Protection of DC and hybrid AC-DC microgrids with ring configuration. , 2017, , .		6
1990	Impedance-phase reshaping of LCL-filtered grid-connected inverters to improve the stability in a weak grid. , 2017, , .		3
1991	A simple current control method for three-phase VSC in DSRF under unbalanced grid condition. , 2017, , .		2

#	Article	IF	Citations
1992	A Virtual Multi-Terminal Current Differential Protection Scheme for Distribution Networks With Inverter-Interfaced Distributed Generators. IEEE Transactions on Smart Grid, 2018, 9, 5418-5431.	6.2	58
1993	DAH-FF approach to improve the current quality and stability of the LCL type grid-connected inverter. , 2017, , .		2
1994	Harmonic compensation in ac distribution systems using smart electronic loads with PFC converters. , 2017, , .		1
1995	Guidelines for dSPACE-based real-time implementation of predictive current control for grid-connected converters. , 2017, , .		3
1996	A q-axis voltage feedforward control method to improve the stability of VSI in a weak grid. , 2017, , .		3
1997	Distributed model predictive control for secondary voltage of the inverter-based microgrid. , 2017, , .		6
1998	An LCPSL filter with multi-tuned traps for grid-connected converters. , 2017, , .		3
1999	Simulation and analysis of power synchronization control for voltage source inverter. , 2017, , .		1
2000	A distributed control scheme with cost optimization and capacity constraints. , 2017, , .		3
2001	Improved Capacitor Voltage Feedforward for Three-Phase LCL-Type Grid-Connected Converter to Suppress Start-Up Inrush Current. Energies, 2017, 10, 713.	1.6	9
2002	Sliding Mode Control for a Transformerless Single-Phase Grid-Connected Photovoltaic System. , 2017, , .		1
2003	Operation and Control of Doubly Fed Induction Generator Based Wind Energy System Using FPGA. , 2017, , .		1
2004	Improved control strategy based on splitting-capacitor for grid-connected inverter. , 2017, , .		0
2005	A Synchronous Reference Frame based PLL Control for a Grid-Tied Photovoltaic System. , 2017, , .		7
2006	A PWM Scheme to Realise Two Times Effective Switching Frequency with Constant Common Mode Voltage and Reactive Power Capability in 1-Ï• Grid-Tied Transformerless H6 PV Inverter. , 2017, , .		0
2008	Control for a Novel Three-Phase Three-Port Rectifier with Power Efficiency Enhanced. , 2017, , .		0
2009	Optimal selection of distributed generating units and its placement for voltage stability enhancement and energy loss minimization. Ain Shams Engineering Journal, 2018, 9, 187-201.	3.5	63
2010	Optimized design method for grid-current-feedback active damping to improve dynamic characteristic of LCL-type grid-connected inverter. International Journal of Electrical Power and Energy Systems, 2018, 100, 19-28.	3.3	20

#	Article	IF	Citations
2011	Hybrid Phase Locked Loop for Controlling Master-Slave Configured Centralized Inverters in Large Solar Photovoltaic Power Plants. IEEE Transactions on Industry Applications, 2018, 54, 3566-3574.	3.3	16
2012	FPGAâ€based implementation for improved control scheme of gridâ€connected PV system with 3â€phase 3â€level NPCâ€VSI. International Journal of Circuit Theory and Applications, 2018, 46, 942-964.	1.3	15
2013	Disturbance-Rejection-Based Model Predictive Control: Flexible-Mode Design With a Modulator for Three-Phase Inverters. IEEE Transactions on Industrial Electronics, 2018, 65, 2893-2903.	5.2	56
2014	Two-Layer Global Synchronous Pulse Width Modulation Method for Attenuating Circulating Leakage Current in PV Station. IEEE Transactions on Industrial Electronics, 2018, 65, 8005-8017.	5.2	20
2015	Distributed Power System Virtual Inertia Implemented by Grid-Connected Power Converters. IEEE Transactions on Power Electronics, 2018, 33, 8488-8499.	5.4	356
2016	Flexible Power Control ofÂPhotovoltaic Systems. , 2018, , 207-229.		5
2017	DMPPT PV System. , 2018, , 163-205.		15
2018	Parameter design and hot seamless transfer of single-phase synchronverter. Electric Power Systems Research, 2018, 160, 63-70.	2.1	10
2019	A Coordinated Frequency Regulation Framework Based on Hybrid Battery-Ultracapacitor Energy Storage Technologies. IEEE Access, 2018, 6, 7310-7320.	2.6	67
2020	An Adaptive Active Damper for Improving the Stability of Grid-Connected Inverters Under Weak Grid. IEEE Transactions on Power Electronics, 2018, 33, 9561-9574.	5.4	96
2021	A Panorama of Future Interdependent Networks: From Intelligent Infrastructures to Smart Cities. Studies in Systems, Decision and Control, 2018, , 1-10.	0.8	9
2022	Dynamic performance analysis, stability margin improvement and transfer power capability enhancement in DFIG based wind turbines at weak ac grid conditions. International Journal of Electrical Power and Energy Systems, 2018, 99, 434-446.	3.3	18
2023	Optimized controllers for enhancing dynamic performance of PV interface system. Journal of Electrical Systems and Information Technology, 2018, 5, 1-10.	1.2	9
2024	Simultaneous Hâˆž stabilization for large-scale systems within distributed wireless networked control framework over fading channels. Journal of the Franklin Institute, 2018, 355, 3010-3030.	1.9	7
2025	Harmonics and Mitigation Techniques Through Advanced Control in Grid-Connected Renewable Energy Sources: A Review. IEEE Transactions on Industry Applications, 2018, 54, 3100-3111.	3.3	160
2026	An accurate power control scheme for droop-controlled grid-connected inverters. , 2018, , .		4
2027	Interconnecting Very Weak AC Systems by Multiterminal VSC-HVDC Links With a Unified Virtual Synchronous Control. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2018, 6, 1041-1053.	3.7	51
2028	Analysis and Mitigation of Dead-Time Harmonics in the Single-Phase Full-Bridge PWM Converter With Repetitive Controllers. IEEE Transactions on Industry Applications, 2018, 54, 5343-5354.	3.3	72

#	Article	IF	Citations
2029	Comparison of Different Controllers and Stability Analysis for Photovoltaic Powered Buck-Boost DC-DC Converter. Electric Power Components and Systems, 2018, 46, 149-161.	1.0	23
2030	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
2031	On Stability of Voltage Source Inverters in Weak Grids. IEEE Access, 2018, 6, 4427-4439.	2.6	144
2032	Active Cancelation of Equivalent Grid Impedance for Improving Stability and Injected Power Quality of Grid-Connected Inverter Under Variable Grid Condition. IEEE Transactions on Power Electronics, 2018, 33, 9387-9398.	5.4	50
2033	Small-Signal Modeling of Three-Phase Synchronous Reference Frame Phase-Locked Loops. IEEE Transactions on Power Electronics, 2018, 33, 5556-5560.	5.4	42
2034	Features of Power Quality in Single-Phase Distributed Power Generation Using Adaptive Nature Vectorial Filter. IEEE Transactions on Power Electronics, 2018, 33, 9482-9495.	5.4	9
2035	Control Strategy for Grid-Connected Three-Phase Inverters During Voltage Sags to Meet Grid Codes and to Maximize Power Delivery Capability. IEEE Transactions on Power Electronics, 2018, 33, 9360-9374.	5.4	84
2036	An Oscillatory Stability Criterion Based on the Unified <inline-formula> <tex-math notation="LaTeX">dq </tex-math> </inline-formula>-Frame Impedance Network Model for Power Systems With High-Penetration Renewables. IEEE Transactions on Power Systems, 2018, 33, 3472-3485.	4.6	146
2037	A Pseudo Open Loop Synchronization technique for heavily distorted grid voltage. Electric Power Systems Research, 2018, 158, 136-146.	2.1	30
2038	Design and implementation of active neutralâ€pointâ€clamped nineâ€level reduced device count inverter: an application to grid integrated renewable energy sources. IET Power Electronics, 2018, 11, 82-91.	1.5	42
2039	Power-Angle Synchronization for Grid-Connected Converter With Fault Ride-Through Capability for Low-Voltage Grids. IEEE Transactions on Energy Conversion, 2018, 33, 970-979.	3.7	16
2040	Inverter-Current-Feedback Resonance-Suppression Method for LCL-Type DG System to Reduce Resonance-Frequency Offset and Grid-Inductance Effect. IEEE Transactions on Industrial Electronics, 2018, 65, 7036-7048.	5.2	65
2041	Robust Grid-Current-Feedback Resonance Suppression Method for LCL-Type Grid-Connected Inverter Connected to Weak Grid. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2018, 6, 2126-2137.	3.7	45
2042	Natural Frame Control of Single-Phase Cascaded H-Bridge Multilevel Converter Based on Fictive-Phases Construction. IEEE Transactions on Industrial Electronics, 2018, 65, 3848-3857.	5.2	17
2043	Sliding Mode Controller in a Multiloop Framework for a Grid-Connected VSI With LCL Filter. IEEE Transactions on Industrial Electronics, 2018, 65, 4714-4723.	5.2	75
2044	Predictive Current Control for an Active Power Filter With <italic>LCL</italic>-Filter. IEEE Transactions on Industrial Electronics, 2018, 65, 4943-4952.	5.2	71
2045	Modulation Schemes of the Three-Phase Impedance Source Invertersâ€”Part II: Comparative Assessment. IEEE Transactions on Industrial Electronics, 2018, 65, 6321-6332.	5.2	41
2046	Modulation Schemes of the Three-Phase Impedance Source Invertersâ€”Part I: Classification and Review. IEEE Transactions on Industrial Electronics, 2018, 65, 6309-6320.	5.2	59

#	Article	IF	Citations
2047	Complex-Coefficient Complex-Variable Filter for Grid Synchronization Based on Linear Quadratic Regulation. IEEE Transactions on Industrial Informatics, 2018, 14, 1824-1834.	7.2	32
2048	A Model Predictive Power Control Approach for a Three-Phase Single-Stage Grid-Tied PV Module-Integrated Converter. IEEE Transactions on Industry Applications, 2018, 54, 1823-1831.	3.3	16
2049	Multiobjective Autonomous Intelligent Load Control for Hybrid Single-/Three-Phase AC/DC Smart Buildings. IEEE Transactions on Sustainable Energy, 2018, 9, 1220-1233.	5.9	11
2050	Robust Control Scheme for Three-Phase Grid-Connected Inverters With <italic>LCL</italic>-Filter Under Unbalanced and Distorted Grid Conditions. IEEE Transactions on Energy Conversion, 2018, 33, 506-515.	3.7	55
2051	Hybrid AC/DC System Harmonics Control Through Grid Interfacing Converters With Low Switching Frequency. IEEE Transactions on Industrial Electronics, 2018, 65, 2256-2267.	5.2	46
2052	Three-Phase Grid-Connected WECS With Mechanical Power Control. IEEE Transactions on Sustainable Energy, 2018, 9, 1508-1517.	5.9	15
2053	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
2054	Analysis and Modeling of Interharmonics From Grid-Connected Photovoltaic Systems. IEEE Transactions on Power Electronics, 2018, 33, 8353-8364.	5.4	83
2055	Control Techniques in AC, DC, and Hybrid ACâ€“DC Microgrid: A Review. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2018, 6, 738-759.	3.7	330
2056	Robust Design of LCL Filters for Single-Current-Loop-Controlled Grid-Connected Power Converters With Unit PCC Voltage Feedforward. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2018, 6, 54-72.	3.7	59
2057	Adaptive behaviors can improve the system consilience of a network system. Adaptive Behavior, 2018, 26, 3-19.	1.1	0
2058	A new method to point of common coupling voltage control in distribution grid-connected photovoltaic systems. International Transactions on Electrical Energy Systems, 2018, 28, e2491.	1.2	3
2059	Power management of virtual synchronous generators through using hybrid energy storage systems. , 2018, , .		7
2060	Detecting and monitoring of voltage and frequency variation and under ground cable fault location using check point method. , 2018, , .		1
2061	Assessment of GCCs' synchronization units under various grid voltage conditions. , 2018, , .		0
2062	Inverter-Side Current Control of Grid-Connected Voltage Source Inverters With LCL Filter Based on Generalized Predictive Control. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2018, 6, 1732-1743.	3.7	60
2063	On the Impacts of PV Array Sizing on the Inverter Reliability and Lifetime. IEEE Transactions on Industry Applications, 2018, 54, 3656-3667.	3.3	95
2064	Power Electronic Converter-Based Induction Motor Emulator Including Main and Leakage Flux Saturation. IEEE Transactions on Transportation Electrification, 2018, 4, 483-493.	5.3	33

#	Article	IF	Citations
2065	A unity power factor active rectifier with optimum space-vector predictive DC voltage control for variable frequency supply suitable for more electric aircraft applications. , 2018, , .		12
2066	Modeling and stability analysis for multiple parallel grid-connected inverters system. , 2018, , .		11
2067	Hybrid UP-PWM for single-phase transformerless photovoltaic inverter to improve zero-crossing distortion. , 2018, , .		2
2068	Design of virtual synchronous generators with enhanced frequency regulation and reduced voltage distortions. , 2018, , .		19
2069	Grid-connected converter active and reactive power production maximization with respect to current limitations during grid faults. International Journal of Electrical Power and Energy Systems, 2018, 101, 311-322.	3.3	23
2070	An Improved Design of Current Controller for <italic>LCL</italic>-Type Grid-Connected Converter to Reduce Negative Effect of PLL in Weak Grid. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2018, 6, 648-663.	3.7	126
2071	Comparative Study of 1-MW PM and HTS Synchronous Generators for Marine Current Turbine. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.1	16
2072	Control, implementation, and analysis of a dual twoâ€level photovoltaic inverter based on modified proportionalâ€“resonant controller. IET Renewable Power Generation, 2018, 12, 598-604.	1.7	36
2073	A Generalized Design Framework of Notch Filter Based Frequency-Locked Loop for Three-Phase Grid Voltage. IEEE Transactions on Industrial Electronics, 2018, 65, 7072-7084.	5.2	70
2074	Dynamic Performance Improvement of Multiple Delayed Signal Cancelation Filters Based Three-Phase Enhanced-PLL. IEEE Transactions on Industry Applications, 2018, 54, 5293-5305.	3.3	34
2075	Overview of grid-connected two-stage transformer-less inverter design. Journal of Modern Power Systems and Clean Energy, 2018, 6, 642-655.	3.3	37
2076	Bus Participation Factor Analysis for Harmonic Instability in Power Electronics Based Power Systems. IEEE Transactions on Power Electronics, 2018, 33, 10341-10351.	5.4	48
2077	Ancillary services provided by photovoltaic inverters: Single and three phase control strategies. Computers and Electrical Engineering, 2018, 70, 102-121.	3.0	43
2078	An Improved Three-Phase Voltage Source Converter With High-Performance Operation Under Unbalanced Conditions. IEEE Access, 2018, 6, 15908-15918.	2.6	15
2079	Analysis and Mitigation of Power Quality Issues in Distributed Generation Systems Using Custom Power Devices. IEEE Access, 2018, 6, 16816-16833.	2.6	235
2080	An Improved Feedforward Control Method Considering PLL Dynamics to Improve Weak Grid Stability of Grid-Connected Inverters. IEEE Transactions on Industry Applications, 2018, 54, 5143-5151.	3.3	175
2081	Enhancement of PQ in grid connected PV system using hybrid technique. Ain Shams Engineering Journal, 2018, 9, 869-881.	3.5	17
2082	Stability Assessment and Optimization Methods for Microgrid With Multiple VSG Units. IEEE Transactions on Smart Grid, 2018, 9, 1462-1471.	6.2	199

#	Article	IF	Citations
2083	Model predictive current controller for performance enhancement of grid-integrated single-phase photovoltaic distributed generation plants. Transactions of the Institute of Measurement and Control, 2018, 40, 762-775.	1.1	7
2084	Distributed Nonlinear Hierarchical Control of AC Microgrid via Unreliable Communication. IEEE Transactions on Smart Grid, 2018, 9, 2429-2441.	6.2	49
2085	Systematic Design of the Hybrid Damping Method for Three-Phase Inverters With High-Order Filters. IEEE Transactions on Power Electronics, 2018, 33, 4944-4956.	5.4	31
2086	A PIMR-Type Repetitive Control for a Grid-Tied Inverter: Structure, Analysis, and Design. IEEE Transactions on Power Electronics, 2018, 33, 2730-2739.	5.4	64
2087	Unified Impedance Model of Grid-Connected Voltage-Source Converters. IEEE Transactions on Power Electronics, 2018, 33, 1775-1787.	5.4	584
2088	Distributed Adaptive Droop Control for Optimal Power Dispatch in DC Microgrid. IEEE Transactions on Industrial Electronics, 2018, 65, 778-789.	5.2	104
2089	Model Predictive Control with Modulated Optimal Vector for a Three-Phase Inverter with an LC Filter. IEEE Transactions on Power Electronics, 2018, 33, 2690-2703.	5.4	87
2090	Comparison of SRF/PI- and STRF/PR-based power controllers for grid-tied distributed generation systems. Electrical Engineering, 2018, 100, 633-643.	1.2	28
2091	Smale Horseshoes and Symbolic Dynamics in the Buckâ€“Boost DCâ€“DC Converter. IEEE Transactions on Industrial Electronics, 2018, 65, 800-809.	5.2	19
2092	A Three-Phase Active Rectifier Topology for Bipolar DC Distribution. IEEE Transactions on Power Electronics, 2018, 33, 1063-1074.	5.4	37
2093	Lifetime Evaluation of Grid-Connected PV Inverters Considering Panel Degradation Rates and Installation Sites. IEEE Transactions on Power Electronics, 2018, 33, 1225-1236.	5.4	152
2094	Optimal Power Dispatching for Local Area Packetized Power Network. IEEE Transactions on Smart Grid, 2018, 9, 4765-4776.	6.2	37
2095	Capacitor-Voltage Feedforward With Full Delay Compensation to Improve Weak Grids Adaptability of LCL-Filtered Grid-Connected Converters for Distributed Generation Systems. IEEE Transactions on Power Electronics, 2018, 33, 749-764.	5.4	132
2096	A Review on Grid-Connected Converter Control for Short-Circuit Power Provision Under Grid Unbalanced Faults. IEEE Transactions on Power Delivery, 2018, 33, 649-661.	2.9	137
2097	A Novel Multifrequency Current Reference Calculation to Mitigate Active Power Fluctuations. IEEE Transactions on Industrial Electronics, 2018, 65, 810-818.	5.2	17
2098	Small-Signal Stability Analysis of Inverter-Fed Power Systems Using Component Connection Method. IEEE Transactions on Smart Grid, 2018, 9, 5301-5310.	6.2	117
2099	Autonomous Voltage Regulation and Current Sharing in Islanded Multi-Inverter DC Microgrid. IEEE Transactions on Smart Grid, 2018, 9, 6429-6437.	6.2	62
2100	Fault Analysis of Inverter-Interfaced Distributed Generators With Different Control Schemes. IEEE Transactions on Power Delivery, 2018, 33, 1223-1235.	2.9	176

#	Article	IF	Citations
2101	Grid Voltage Estimation and Current Control of a Single-Phase Grid-Connected Converter Without Grid Voltage Sensor. IEEE Transactions on Power Electronics, 2018, 33, 4407-4418.	5.4	29
2102	Power Cycling Test Methods for Reliability Assessment of Power Device Modules in Respect to Temperature Stress. IEEE Transactions on Power Electronics, 2018, 33, 2531-2551.	5.4	155
2103	Synchronization Technique of Grid-Connected Power Converters Based on a Limit Cycle Oscillator. IEEE Transactions on Industrial Electronics, 2018, 65, 709-717.	5.2	52
2104	An Improved DC-Link Voltage Control Strategy for Grid Connected Converters. IEEE Transactions on Power Electronics, 2018, 33, 3575-3582.	5.4	58
2105	Switching Loss Reduction in the Three-Phase Quasi-Z-Source Inverters Utilizing Modified Space Vector Modulation Strategies. IEEE Transactions on Power Electronics, 2018, 33, 4045-4060.	5.4	67
2106	Adaptive Sliding Mode Control of Standalone Single-Phase Microgrid Using Hydro, Wind, and Solar PV Array-Based Generation. IEEE Transactions on Smart Grid, 2018, 9, 6806-6814.	6.2	104
2107	A PLL-Based Controller for Three-Phase Grid-Connected Power Converters. IEEE Transactions on Power Electronics, 2018, 33, 911-916.	5.4	32
2108	An Enhanced State Observer for DC-Link Voltage Control of Three-Phase AC/DC Converters. IEEE Transactions on Power Electronics, 2018, 33, 936-942.	5.4	65
2109	A techno-commercial review on grid connected photovoltaic system. Renewable and Sustainable Energy Reviews, 2018, 81, 2371-2397.	8.2	38
2110	Sideband Harmonic Instability of Paralleled Inverters With Asynchronous Carriers. IEEE Transactions on Power Electronics, 2018, 33, 4571-4577.	5.4	49
2111	Damping techniques for grid-connected voltage source converters based on LCL filter: An overview. Renewable and Sustainable Energy Reviews, 2018, 81, 116-135.	8.2	91
2112	Grid Synchronization With Selective Harmonic Detection Based on Generalized Delayed Signal Superposition. IEEE Transactions on Power Electronics, 2018, 33, 3938-3949.	5.4	26
2113	A Battery/Ultracapacitor Hybrid Energy Storage System for Implementing the Power Management of Virtual Synchronous Generators. IEEE Transactions on Power Electronics, 2018, 33, 2820-2824.	5.4	301
2114	A power sharing scheme for voltage unbalance and harmonics compensation in an islanded microgrid. Electric Power Systems Research, 2018, 155, 153-163.	2.1	32
2115	An overview on prospects of new generation single-phase transformerless inverters for grid-connected photovoltaic (PV) systems. Renewable and Sustainable Energy Reviews, 2018, 82, 515-530.	8.2	44
2116	Fractional Order Sliding Mode Based Direct Power Control of Grid-Connected DFIG. IEEE Transactions on Power Systems, 2018, 33, 3087-3096.	4.6	81
2117	Multiobjective Automated and Autonomous Intelligent Load Control for Smart Buildings. IEEE Transactions on Power Systems, 2018, 33, 2778-2791.	4.6	13
2118	Design Considerations of Digitally Controlled LCL-Type Grid-Connected Inverter with Capacitor-Current-Feedback Active-Damping. CPSS Power Electronics Series, 2018, , 165-196.	0.2	6

#	Article	IF	Citations
2119	Designing high-order power-source synchronous current converters for islanded and grid-connected microgrids. Applied Energy, 2018, 219, 370-384.	5.1	8
2120	Model Predictive Control of Power Converters for Robust and Fast Operation of AC Microgrids. IEEE Transactions on Power Electronics, 2018, 33, 6304-6317.	5.4	249
2121	Analysis of Current Harmonics Compensation and the Effect of Frequency Variation for Single-Phase Stand-Alone PV Inverters using PR Controller. IETE Journal of Research, 2018, 64, 463-470.	1.8	6
2122	Benchmarking of Constant Power Generation Strategies for Single-Phase Grid-Connected Photovoltaic Systems. IEEE Transactions on Industry Applications, 2018, 54, 447-457.	3.3	96
2123	Voltage and Reactive Power Control to Maximize the Energy Savings in Power Distribution System With Wind Energy. IEEE Transactions on Industry Applications, 2018, 54, 656-664.	3.3	59
2124	Hierarchical control for flexible microgrid based on three-phase voltage source inverters operated in parallel. International Journal of Electrical Power and Energy Systems, 2018, 95, 188-201.	3.3	47
2125	Magnetic Integration of LTL Filter With Two LC-Traps for Grid-Connected Power Converters. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2018, 6, 1434-1446.	3.7	19
2126	Seeker optimization approach to dynamic PI based virtual impedance drooping for economic load sharing between PV and SOFC in an islanded microgrid. Sustainable Cities and Society, 2018, 37, 550-562.	5.1	33
2127	Stability Improvement for Three-Phase Grid-Connected Converters Through Impedance Reshaping in Quadrature-Axis. IEEE Transactions on Power Electronics, 2018, 33, 8365-8375.	5.4	117
2128	Mitigation of DC and Harmonic Currents Generated by Voltage Measurement Errors and Grid Voltage Distortions in Transformerless Grid-Connected Inverters. IEEE Transactions on Energy Conversion, 2018, 33, 801-813.	3.7	40
2129	Cascaded Voltage Control of Three-Phase Four-Leg Inverter for OFF Grid Solar Photovoltaic Applications. Lecture Notes in Electrical Engineering, 2018, , 135-145.	0.3	1
2130	An Integral Droop for Transient Power Allocation and Output Impedance Shaping of Hybrid Energy Storage System in DC Microgrid. IEEE Transactions on Power Electronics, 2018, 33, 6262-6277.	5.4	77
2131	An adaptive current control-detuned harmonics elimination schemes for enhancement of power quality in RES interfaced AC-grid network. Sustainable Energy Technologies and Assessments, 2018, 25, 11-23.	1.7	7
2132	A power quality enhanced grid voltage sensorless predictive direct power control for active front end rectifiers. Transactions of the Institute of Measurement and Control, 2018, 40, 3809-3823.	1.1	9
2133	Modeling and control for new LLCL filter based grid-tied PV inverters with active power decoupling and active resonance damping capabilities. Electric Power Systems Research, 2018, 155, 307-319.	2.1	15
2134	Active Magnetic Decoupling for Improving the Performance of Integrated LCL-Filters in Grid-Connected Converters. IEEE Transactions on Industrial Electronics, 2018, 65, 1367-1376.	5.2	32
2135	Distributed stabilizing modular control for stand-alone microgrids. Applied Energy, 2018, 210, 925-935.	5.1	23
2136	A New Smooth Synchronization of Brushless Doubly-Fed Induction Generator by Applying a Proposed Machine Model. IEEE Transactions on Sustainable Energy, 2018, 9, 371-380.	5.9	29

#	Article	IF	Citations
2137	Control Strategy for Distribution Generation Inverters to Maximize the Voltage Support in the Lowest Phase During Voltage Sags. IEEE Transactions on Industrial Electronics, 2018, 65, 2346-2355.	5.2	50
2138	Appropriate crowbar protection for improvement of brushless DFIG LVRT during asymmetrical voltage dips. International Journal of Electrical Power and Energy Systems, 2018, 95, 1-10.	3.3	42
2139	Voltage Unbalance and Overvoltage Mitigation by Using the Three-phase Damping Control Strategy in Battery Storage Applications. , 2018, , .		6
2140	Effective Utilisation of Solar Energy Conversion System with Energy Storage in AC Microgrid. , 2018, , .		0
2141	Adaptive Generalized Predictive Control Scheme for Single Phase GPV System. , 2018, , .		2
2142	Design of Photovoltaic and Fuel Cells based Distributed Generation System: Entire System Survey. , 2018, , .		1
2143	Protection and control of microgrids using dynamic state estimation. Protection and Control of Modern Power Systems, 2018, 3, .	4.3	22
2144	Impedance Modeling and Stability Analysis for Cascade System of Three-Phase PWM Rectifier and LLC Resonant Converter. Energies, 2018, 11, 3050.	1.6	7
2145	Predicting Solar Irradiance With SVM Regression. SSRN Electronic Journal, 0, , .	0.4	0
2146	Modeling Short Lines for Time-Domain Simulation of the DC Microgrid. , 2018, , .		1
2147	Simple and Effective Time Delay Compensation Method for Active Damping Control of Grid-Connected Inverter with an LCL Filter. IEEJ Journal of Industry Applications, 2018, 7, 454-461.	0.9	3
2148	A Novel Synchronous Signal Detection Method without Phase-Locked Loop Based on EEMD. , 2018, , .		0
2149	Hybrid CCS/FCS Model Predictive Current Control of a Grid Connected Two-Level Converter. , 2018, , .		2
2150	Comparison and Simulation of the Level-Shifted and Phase-Shifted Modulation for a Five-Level Converter for Integration of Renewable Sources. , 2018, , .		5
2151	Frequency-division Impedance Shaping Control Method for Grid-connected Inverters in a Weak Grid. , 2018, , .		0
2152	Study of Phase-Locked-Loop-Based Synchronization of Grid Inverter During Large Phase Jump. , 2018, , .		6
2153	Dynamic Phasor Modeling of SRF-PLL Based Grid-Tie Inverter Under Islanded Conditions. , 2018, , .		4
2154	Improved Phase-Locked Loop Algorithm for Synchronization Under Grid Faults. , 2018, , .		1

#	Article	IF	Citations
2155	A unified distributed control scheme on cost optimization for hybrid AC/DC microgrid. , 2018, , .		3
2156	Decentralised Master-Slave Control of Intergrids. , 2018, , .		0
2157	High-Performance Resonant Controller for Active Power Filter with Selective Harmonic Compensation. , 2018, , .		2
2158	Hardware-in-the-Loop Validation of the Frequency Divider Formula. , 2018, , .		4
2159	Phase-Locked Loop Small-Signal Disturbance Compensation Control for Three-Phase LCL-Type Grid-Connected Converter under Weak Grid. , 2018, , .		13
2160	Enhanced Hierarchical Control of Hybrid Energy Storage System in Microgrids. , 2018, , .		4
2161	Dual Closed-Loop Control Strategy of LCL Filter Grid-Connected Inverter Based on the Î±Î² Coordinate System. , 2018, , .		2
2162	SiC MOSFET Based Bi-Directional 3-Phase AC/DC Converter. , 2018, , .		5
2163	Inertia Emulation by Flywheel Energy Storage System for Improved Frequency Regulation. , 2018, , .		14
2164	Exploration of the Relationship Between Inertia Enhancement and DC-Link Capacitance for Grid-Connected Converters. , 2018, , .		3
2165	Generalized Predictive Control of Grid-Connected VSI with LCL Filter. , 2018, , .		1
2166	Fast Delayed Signal Cancellation based PLL for unbalanced grid conditions. , 2018, , .		3
2167	Consensus-Based SOC Balancing of Battery Energy Storage Systems in Wind Farm. Energies, 2018, 11, 3507.	1.6	5
2168	Comparative Stability Analysis of Several Single-Phase Grid-Connected Inverters with Harmonic Compensation. , 2018, , .		1
2169	Comparative Stability Analysis for Common Grid-Connected PV Inverter Control Strategies. , 2018, , .		0
2170	Experimental Evaluation of the Performance of a Three-Phase Five-Level Cascaded H-Bridge Inverter by Means FPGA-Based Control Board for Grid Connected Applications. Energies, 2018, 11, 3298.	1.6	21
2171	Hybrid Neural Fuzzy Design-Based Rotational Speed Control of a Tidal Stream Generator Plant. Sustainability, 2018, 10, 3746.	1.6	4
2172	Unified Digital Periodic Controller for Power Converter Systems. , 2018, , .		0

#	Article	IF	Citations
2173	Comprehensive Analysis of Virtual Impedance-Based Active Damping for LCL Resonance in Grid-Connected Inverters. , 2018, , .		4
2174	Improved backstepping based control approach for single-stage inverter grid interfacing solar photovoltaic system. AIP Conference Proceedings, 2018, , .	0.3	2
2175	Improved Sliding Mode Control Method of Single-Phase LCL Filtered VSI. , 2018, , .		6
2176	Fuzzy Logic Controller for Efficient Energy Management of a PV System with HESS. , 2018, , .		8
2177	Online Control Using ANN-PI Controller for Single Stage Transformerless Grid Tied PV System. , 2018, , .		6
2178	Unbalanced Current Sharing Control in Islanded Low Voltage Microgrids. Energies, 2018, 11, 2776.	1.6	22
2179	Research on Improved Virtual Synchronous Generator Based on Differential Compensation Link. , 2018, , .		5
2180	Sliding Mode combined VSG Control to Microgrid Inverters. , 2018, , .		3
2181	Adaptive Series Stabilizer Module for the Grid Connected Inverter under Variable Grid Conditions. , 2018, , .		0
2182	Anti-Windup Action in Inverters Control of Distributed Generation Photovoltaic Systems. , 2018, , .		2
2183	FPGA Based Power Flow Control of Grid Side Converter of DFIG Wind Energy System. , 2018, , .		0
2185	Modeling and Synchronization Stability of Low-Voltage Active Distribution Networks With Large-Scale Distributed Generations. IEEE Access, 2018, 6, 70989-71002.	2.6	13
2186	Observer-Based Discrete Sliding Mode Control for LCL-Filtered Grid-Connected Inverters with Less Sensors. , 2018, , .		0
2187	An Adaptive Phase-Locked Loop to Improve Stability of Voltage Source Converters in Weak Grids. , 2018, , .		15
2188	Load harmonics extraction based decoupled control of grid connected solar photovoltaic system. IOP Conference Series: Materials Science and Engineering, 2018, 396, 012049.	0.3	2
2189	Sequence Impedance Modeling and Stability Analysis for Renewable Energy Power Station. , 2018, , .		3
2190	Passivity Enhancement for Three-Phase Grid-Connected Inverter in dq-frame. , 2018, , .		0
2191	Stability Analysis of Grid-Connected Converters with Different Implementations of Adaptive PR Controllers under Weak Grid Conditions. Energies, 2018, 11, 2004.	1.6	9

#	Article	IF	Citations
2192	Robust Sliding Mode Voltage Control of Three-phase Power System Converter. , 2018, , .		3
2193	Four-leg Voltage Source Inverter for Voltage and Current Balancing of Distribution Transformer with Distributed Generations. , 2018, , .		1
2194	An Advanced Model Predictive Controller for Grid-Tied Four-Leg Multilevel Inverters. , 2018, , .		2
2195	Reshaping Quadrature-Axis Impedance of Three-Phase Grid-Connected Converters for Low-Frequency Stability Improvement. , 2018, , .		4
2196	A New Control Approach of Grid Interfaced Five Level Cascaded Multilevel Inverter. , 2018, , .		0
2197	Real Time Energy Management System and Control Strategy for DC Microgrid. , 2018, , .		1
2198	Voltage Regulation of DC Microgrid by Robust Back-stepping Control Technique of Voltage Source Converter. , 2018, , .		0
2199	A Low Cost Distributed Solar DC Nanogrid: Design and Deployment with Remote Monitoring Unit. , 2018, , .		3
2200	Loop Gain Oriented Design of Multiresonant Current Controllers. , 2018, , .		2
2201	Fast frequency support from hybrid solar PV and wind power plant. , 2018, , .		2
2202	Overview of Outer Loop Control Strategy for Inverters of Micro grid. , 2018, , .		0
2203	The comparison analysis of typical control strategies for LCL type inverter in Frequency domain. , 2018, , .		0
2204	Operation of Microgrid with cascaded Current-Voltage Control of Voltage-sourced Converter based on H-infinity Repetitive Control Strategy. , 2018, , .		0
2205	Information Transmission Over the Limited-rate Communication Channel by Chaotic Signal Modulation and Non-linear Observer.. IFAC-PapersOnLine, 2018, 51, 91-96.	0.5	0
2206	Hardware Implementation of Adaptive Notch Filter for Estimation of Frequency and Phase of a Utility Grid. , 2018, , .		0
2207	Distributed Control and Power Management Strategy for an Autonomous Hybrid Microgrid with Multiple Sub-Microgrids. , 2018, , .		1
2208	An Enhanced Adaptive Filter for Orthogonal Signal Generation in a Single-phase DQ Current Controller. , 2018, , .		4
2209	Sliding Mode Observers Based Wind Speed Computation Method in Wind Energy Conversion Systems Control Applications. , 2018, , .		1

#	Article	IF	Citations
2210	Development of System-On-Chip Based Digital Control for Power Converter Application. , 2018, , .		2
2211	Impedance-Based Stability Analysis of Different Current Control Categories of Grid-Connected Inverters. , 2018, , .		5
2212	The research of SSR which can be restrained by photovoltaic grid connected. IOP Conference Series: Earth and Environmental Science, 2018, 121, 042014.	0.2	1
2213	An Effective PCC Voltage Harmonic Compensation and Harmonic Power Sharing in Islanded Microgrid. , 2018, , .		2
2214	Phase cascade lattice rectifier array: an exactly solvable nonlinear network circuit. New Journal of Physics, 2018, 20, 103007.	1.2	1
2215	Impedance Influence Analysis of Phase-Locked Loops on Three-Phase Grid-Connected Inverters. , 2018, , .		3
2216	Objective PDF-Shaping-Based Economic Dispatch for Power Systems with Intermittent Generation Sources via Simultaneous Mean and Variance Minimization*. , 2018, , .		2
2217	High Tracking Efficiency Photovoltaic Energy System. , 2018, , .		0
2218	Distributed Hierarchical Control of AC Microgrid Operating in Grid-Connected, Islanded and Their Transition Modes. IEEE Access, 2018, 6, 77388-77401.	2.6	110
2219	DQ Transform Based Current Controller for Single-Phase Grid Connected Inverter. , 2018, , .		7
2220	Synchronization of Solar Inverter with Power Grid. , 2018, , .		4
2221	A Three-input Central Capacitor DC/DC Converter. , 2018, , .		0
2222	Grid Voltage Sensorless Control of Single Phase Grid Tied Inverter for Renewable Energy Systems Applications. Electric Power Components and Systems, 2018, 46, 1795-1807.	1.0	5
2223	How Decentral Smart Grid Control Limits Non-Gaussian Power Grid Frequency Fluctuations. , 2018, , .		3
2224	Microgrid Stability Improvement using a Fuzzy-Based PSS Design for Virtual Synchronous Generator. , 2018, , .		6
2225	Fuzzy Supervision Based-Pitch Angle Control of a Tidal Stream Generator for a Disturbed Tidal Input. Energies, 2018, 11, 2989.	1.6	10
2226	PSO Based Harmonic Current Control in an Islanded Microgrid. , 2018, , .		0
2227	Experimental Validation of a Combined Multi-Variable Filter â€“ Dual Second Order Generalized Integrator Phase-Locked Loop Technique. , 2018, , .		2

#	Article	IF	Citations
2228	Towards the Distributed Edge â€“ An IoT Review. , 2018, , .		10
2229	Impedance Modeling and Stability Analysis of the Cascaded Three-phase Symmetric Systems Using Complex Transfer Functions. , 2018, , .		3
2230	SOGI-FLL Based Optimal Current Control Scheme for Single-Phase Grid-Connected Photovoltaic VSIs with LCL Filter. , 2018, , .		6
2231	An Overview of Transformerless Inverters for Grid Connected Photovoltaic System. , 2018, , .		9
2232	Comparative Analysis of Control Schemes in Grid Connected PV System. , 2018, , .		0
2233	An H5 Transformerless Inverter for Grid Connected PV Systems with Improved Utilization Factor and a Simple Maximum Power Point Algorithm. Energies, 2018, 11, 2912.	1.6	18
2234	Current Ripple Reduction for Photovoltaic Powered Single-Phase Buck-Boost Differential Inverter under Nonlinear Loads. , 2018, , .		1
2235	Robust Current Control Method for LCL-Type Shunt Active Power Filters with Inverter-Side Current Feedback Active Damping. , 2018, , .		5
2236	Applying Game Theory Economics to Clean Renewable Energy Source Implementation in Urban Areas. , 2018, , .		2
2237	Dual Mode Controller Configuration of PV System for On-Grid and Off-Grid Application. , 2018, , .		3
2238	Current Compensators for Unbalanced Electric Distribution Systems. , 2018, , .		3
2239	Evaluation of Flicker Measurement in Grid-connected Wind Turbine. , 2018, , .		1
2240	Investigation of Grid-Connected and Islanded Direct Matrix Converter for Renewable Microgrid Applications with Model Predictive Control. , 2018, , .		2
2241	An Adaptive Phase-Locked Loop for the Transient Stability Enhancement of Grid-Connected Voltage Source Converters. , 2018, , .		20
2242	Reliability Assessment of PV Inverters with Battery Systems Considering PV Self-Consumption and Battery Sizing. , 2018, , .		5
2243	Control of Novel PV Inverter with ANFIS in Grid Tied PV System Under Unbalanced Grid Condition. , 2018, , .		1
2244	Modeling of Unbalanced Three-Phase Grid-Connected Converters with Decoupled Transfer Functions. , 2018, , .		0
2245	Comparative Analysis of Current Control Techniques to Support Virtual Inertia Applications. Applied Sciences (Switzerland), 2018, 8, 2695.	1.3	19

#	Article	IF	Citations
2246	More Generalized Resonant Controllers for the Current Regulation of Power Electronics Converters in Stationary Referecne Frame. , 2018, , .		1
2247	An Impedance Reshaping Control Strategy to Enhance Adaptability to Grid for Grid-Connected Inverters. , 2018, , .		2
2248	Voltage-Based Load Control for Frequency Support Provision by HVDC Systems. , 2018, , .		9
2249	Lyapunov- and Eigenvalue-based Stability Assessment of the Grid-connected Voltage Source Converter. , 2018, , .		12
2250	Research on Interaction Between AC side and DC side in VSC-HVDC. , 2018, , .		0
2251	A Low-Loss Grid Decoupling Mechanism in a Transformerless Single-Phase Interfacing Inverter. , 2018, , .		1
2252	The Role of Power Electronics in Future Low Inertia Power Systems. , 2018, , .		24
2253	Inertia Enhancement by Grid-Connected Power Converters with Frequency-Locked-Loops for Frequency Derivative Estimation. , 2018, , .		3
2254	Enhanced orthogonal signal generator for a singleâ€phase gridâ€connected converter. IET Power Electronics, 2018, 11, 2563-2572.	1.5	10
2255	Effective Time Delay Compensation for Control of Grid-Connected Inverter with LCL Filter. , 2018, , .		0
2256	Realizable References Anti-Windup Implementation for Parallel Controllers in Multiple Reference Frames. , 2018, , .		3
2257	A Novel Compensation Current Control Method for Grid-Connected PV Inverter to Improve Power Quality in Micro-Grid. , 2018, , .		2
2258	Decentralised Energy Market for Implementation into the Intergrid Concept - Part 2: Integrated System. , 2018, , .		3
2259	Modified Topology of Z-Source Inverter by Switched Inductor with Series Impedance Network. , 2018, , .		5
2260	Mitigation of Oscillating Power Effect on PV Power and Grid Current in Single-phase Single-stage PV Grid-tied Systems. , 2018, , .		8
2261	Small-Signal Model of STATCOM and Its Model Validation. , 2018, , .		1
2262	Linear Phase-Locked Loop. , 2018, , .		6
2263	Design and Simulation of Voltage Source Grid Connected Inverter (VSI). , 2018, , .		2

#	Article	IF	Citations
2264	On Power Electronized Power Systems: Challenges and Solutions. , 2018, , .		10
2265	Three-Phase Grid Voltage Synchronization Using Composite Filters. , 2018, , .		0
2266	A Fault-tolerant parallel inverter applied to micro-grid. , 2018, , .		0
2267	Mission Profile-Oriented Control for Reliability and Lifetime of Photovoltaic Inverters. , 2018, , .		3
2268	Distributed model predictive control for wide area measurement power systems under malicious attacks. IET Cyber-Physical Systems: Theory and Applications, 2018, 3, 111-118.	1.9	18
2269	Grid Integration of Small-Scale Photovoltaic Systems-A Review. , 2018, , .		12
2270	Fuzzy MPPT Based Grid-Connected Photovoltaic System. , 2018, , .		3
2271	Neural Controlled Multi-Level Inverter Based DVR for Power Quality Improvement. , 2018, , .		3
2272	Decoupled DSOGI-PLL for Improved Three Phase Grid Synchronisation. , 2018, , .		18
2273	Use of Renewable energy in performance enhancement of Indian Traction Power Supply System. , 2018, , .		2
2274	Large-Signal Stability Modeling for the Grid-Connected VSC Based on the Lyapunov Method. Energies, 2018, 11, 2533.	1.6	19
2275	MIMO Based Decoupling Strategy for Grid Connected Power Converters Controlled in the Synchronous Reference Frame. , 2018, , .		1
2276	An Approach to the Design of Stable Distributed Energy Resources. , 2018, , .		5
2277	Integral sliding modeâ€“improved adaptive MPPT control scheme for suppressing grid current harmonics for PV system. IET Renewable Power Generation, 2018, 12, 1904-1914.	1.7	42
2278	Implementing Virtual Synchronous Generator to Load-Frequency Control with Penetration of Wind Turbine Considering Limitation of Storage System Capacity. , 2018, , .		2
2279	The Interaction Stability Analysis of a Multi-Inverter System Containing Different Types of Inverters. Energies, 2018, 11, 2244.	1.6	5
2280	Appraisal of Constraints Impeding the Integration of Distributed Energy Resources Network. , 2018, , .		1
2281	Control and Grid Synchronization of Fuel Cell Based Inverter Using Matlab. , 2018, , .		1

#	Article	IF	Citations
2282	Design and Modelling of a 6kW Grid-Connected Photovoltaic System - AC Stage. , 2018, , .		2
2283	Machine Learning of Factors Influencing Damping and Frequency of Dominant Inter-area Modes in the WECC Interconnect. , 2018, , .		3
2284	An Experimental Study of Grid Tied Inverter for Renewable Energy Systems. , 2018, , .		6
2285	Fast Frequency Control Scheme through Adaptive Virtual Inertia Emulation. , 2018, , .		20
2286	Fuzzy Logic Grid Synchronization Technique for Single-Phase Systems. , 2018, , .		4
2287	A Real Multitechnology Microgrid in Venice: A Design Review. IEEE Industrial Electronics Magazine, 2018, 12, 19-31.	2.3	12
2289	Novel Neural Control of Single-Phase Grid-Tied Multilevel Inverters for Better Harmonics Reduction. Electronics (Switzerland), 2018, 7, 111.	1.8	7
2290	Weak Grid Impacts on the Design of Voltage Source Inverters â€"Virtual Inductance. , 2018, , .		3
2291	Adequacy Analysis of Overhead Line Model for Harmonic Stability Analysis of Grid-Connected Voltage-Source Converters. , 2018, , .		0
2292	A Synchronization Method for Grid Converters with Enhanced Small-Signal and Transient Dynamics. , 2018, , .		1
2293	Discrete-time stability analysis of grid-connected converters considering the PLL dynamics. , 2018, , .		3
2294	Energization and Start-up of Modular Three-stage Solid State Transformers. , 2018, , .		2
2295	Experimental Test of Grid Connected VSC to Improve the Power Quality in a Wave Power System. , 2018, , .		4
2296	A Direct-Flux-Controlled Single-phase Electricity Generation of 3-phase Squirrel Cage Induction Machine. , 2018, , .		0
2297	Power Quality Enhancement for PV rooftop and BESS in Islanded mode. , 2018, , .		7
2298	Switch Fault Detection and Compensation Technique in a Boost DC-DC Converter for Renewable Energy Generation Systems. , 2018, , .		2
2299	Foundations and Challenges of Low-Inertia Systems (Invited Paper). , 2018, , .		392
2300	A Review on Recent Advances and Future Trends of Transformerless Inverter Structures for Single-Phase Grid-Connected Photovoltaic Systems. Energies, 2018, 11, 1968.	1.6	51

#	Article	IF	Citations
2301	AC Ship Microgrids: Control and Power Management Optimization. Energies, 2018, 11, 1458.	1.6	56
2302	A Novel Two-Stage Photovoltaic Grid-Connected Inverter Voltage-Type Control Method with Failure Zone Characteristics. Energies, 2018, 11, 1865.	1.6	5
2303	Voltage Support Experimental Analysis of a Low-Voltage Ride-Through Strategy Applied to Grid-Connected Distributed Inverters. Energies, 2018, 11, 1949.	1.6	6
2304	Performance Analysis of Adaptive Filters based on Robust Second Order Generalized Integrator under Adverse Grid Condition. , 2018, , .		2
2305	FPGA Based System Integration Scheme for a Grid Connected Photovoltaic System. , 2018, , .		4
2306	A Controller for Hybrid Microgridwith Battery Storage in Utility Connected and Isolated Mode of Operation. , 2018, , .		1
2307	Performance Improvement of Distribution System Through PV Inverter. , 2018, , .		0
2308	Wind Energy Provision Monitoring in Karnataka Region. , 2018, , .		0
2309	A bidirectional dual active bridge converter for V2G applications based on DC microgrid. , 2018, , .		16
2310	Controller design and stability analysis of grid connected DC microgrid. Journal of Renewable and Sustainable Energy, 2018, 10, .	0.8	13
2311	An adaptive framework for mitigating current harmonics caused by distributed energy resources. , 2018, , .		7
2312	Design of an adaptive feed-forward control scheme for the DC bus voltage control of single phase grid connected converters. , 2018, , .		2
2313	Atypical PWM for maximizing 2L-VSI DC-bus utilization in inverter-based microgrids with ancillary services. , 2018, , .		8
2314	A new power flow control approach for power converters in single-phase microgrids. , 2018, , .		2
2315	Enhancement of power quality using double-band hysteresis controller for the grid integrated renewable energy system. International Transactions on Electrical Energy Systems, 2018, 28, e2623.	1.2	8
2316	Decoupled State-Feedback Based Control Scheme for the Distributed Generation System. Electric Power Components and Systems, 2018, 46, 494-510.	1.0	2
2317	Analysis and Control of a Novel Transformer-Less Microinverter for PV-Grid Interface. IEEE Journal of Photovoltaics, 2018, 8, 1110-1118.	1.5	38
2318	Adaptive control method for chaotic power systems based on finite-time stability theory and passivity-based control approach. Chaos, Solitons and Fractals, 2018, 112, 159-167.	2.5	31

#	Article	IF	Citations
2319	Multiâ€objective selfâ€synchronised virtual synchronous generator in unbalanced power grid. Electronics Letters, 2018, 54, 779-781.	0.5	10
2320	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
2321	Three vector complete model predictive control for three-phase grid-connected inverters with LCL filter. , 2018, , .		4
2322	Sequenceâ€componentâ€based current differential protection for transmission lines connected with IIGs. IET Generation, Transmission and Distribution, 2018, 12, 3086-3096.	1.4	27
2323	Voltage harmonic reduction using virtual oscillator based inverters in islanded microgrids. , 2018, , .		9
2324	Real time distributed generation monitoring at substation based on feeder IED functions and load profiles. , 2018, , .		1
2327	Survey on Complex Optimization and Simulation for the New Power Systems Paradigm. Complexity, 2018, 2018, 1-32.	0.9	44
2328	An Adaptive Control Strategy for Virtual Synchronous Generator. IEEE Transactions on Industry Applications, 2018, 54, 5124-5133.	3.3	174
2329	Optimal PI microcontroller-based realization for technical trends of single-stage single-phase grid-tied PV. Engineering Science and Technology, an International Journal, 2018, 21, 945-956.	2.0	11
2330	DC-link transient improvement of SMC-based hybrid control of DFIG-WES under asymmetrical grid faults. International Transactions on Electrical Energy Systems, 2018, 28, e2633.	1.2	8
2331	Robust dynamic fuzzy-based enhanced VPD/FQB controller for load sharing in microgrid with distributed generators. Electrical Engineering, 2018, 100, 2457-2472.	1.2	20
2332	Digital Control Techniques Based on Voltage Source Inverters in Renewable Energy Applications: A Review. Electronics (Switzerland), 2018, 7, 18.	1.8	59
2333	All SiC Grid-Connected PV Supply with HF Link MPPT Converter: System Design Methodology and Development of a 20 kHz, 25 kVA Prototype. Electronics (Switzerland), 2018, 7, 85.	1.8	13
2334	Hâˆž Robust Control of an LCL-Type Grid-Connected Inverter with Large-Scale Grid Impedance Perturbation. Energies, 2018, 11, 57.	1.6	15
2335	A Systematic Controller Design for a Grid-Connected Inverter with LCL Filter Using a Discrete-Time Integral State Feedback Control and State Observer. Energies, 2018, 11, 437.	1.6	17
2336	Evaluation of the Reactive Power Support Capability and Associated Technical Costs of Photovoltaic Farmsâ€™ Operation. Energies, 2018, 11, 1567.	1.6	11
2337	Comparative analysis between harmonic distortion mitigation techniques produced by wind power inverting units. , 2018, , .		0
2338	Multi-Layer Artificial Neural Networks Based MPPT-Pitch Angle Control of a Tidal Stream Generator. Sensors, 2018, 18, 1317.	2.1	11

#	Article	IF	Citations
2339	Design for Reliability of Power Electronic Systems. , 2018, , 1423-1440.		38
2340	A comprehensive review on inverter topologies and control strategies for grid connected photovoltaic system. Renewable and Sustainable Energy Reviews, 2018, 94, 1120-1141.	8.2	197
2341	Evaluation of Linear Current Control Methods in Single-Phase Grid-Tie Inverters. IEEE Latin America Transactions, 2018, 16, 1424-1431.	1.2	2
2342	Active Disturbance Rejection Control of LCL-Filtered Grid-Connected Inverter Using PadÃ© Approximation. IEEE Transactions on Industry Applications, 2018, 54, 6179-6189.	3.3	79
2343	Local measurementâ€based technique for estimating fault location in multiâ€source DC microgrids. IET Generation, Transmission and Distribution, 2018, 12, 3305-3313.	1.4	27
2344	A Double Update PWM Method to Improve Robustness for the Deadbeat Current Controller in Three-Phase Grid-Connected System. Journal of Electrical and Computer Engineering, 2018, 2018, 1-13.	0.6	3
2345	Simulation and dynamic analysis of three-phase photovoltaic system connected on grid employing Matlab/Simulink software. , 2018, , .		1
2346	Distributed Cooperative Fault Detection for Multiagent Systems: A Mixed $H_{infty }/H_2$ Optimization Approach. IEEE Transactions on Industrial Electronics, 2018, 65, 6468-6477.	5.2	53
2347	LCL-resonance damping strategies for grid-connected inverters with LCL filters: a comprehensive review. Journal of Modern Power Systems and Clean Energy, 2018, 6, 292-305.	3.3	40
2348	On the Modeling and Control of a Photovoltaic-Fuel Cell Hybrid Energy System. , 2018, , 151-171.		0
2349	Control of Single-Phase and Three-Phase DC/AC Converters. , 2018, , 153-173.		12
2350	Modeling and Control of PV Systems. , 2018, , 243-268.		4
2351	Improved Lyapunov function based control approach for single-stage inverter grid interfacing solar photovoltaic system. , 2018, , .		4
2352	Establishment of fault current characteristics for solar photovoltaic generator considering low voltage ride through and reactive current injection requirement. Renewable and Sustainable Energy Reviews, 2018, 92, 478-488.	8.2	42
2353	Current control strategies for single phase grid integrated inverters for photovoltaic applications-a review. Renewable and Sustainable Energy Reviews, 2018, 92, 554-569.	8.2	62
2354	LQR Based Control Method for Grid Connected and Islanded DG System. International Journal of Emerging Electric Power Systems, 2018, 19, .	0.6	3
2355	Coordinated protection and control strategy with wind power integration for distribution network. Journal of Engineering, 2018, 2018, 1204-1208.	0.6	3
2356	A Novel Operation Strategy of Battery-Supercapacitor Hybrid Energy Storage System Providing Frequency Regulation Service. , 2018, , .		1

#	Article	IF	Citations
2357	Fractional Order Proportional-Resonant Controller. , 2018, , .		6
2358	Inner-Outer Loop based Robust Active Damping for LCL Resonance in Grid-Connected Inverters using Grid Current Feedback. , 2018, , .		2
2359	An Improved Control Strategy for Three-Phase Power Inverters in Islanded AC Microgrids. Inventions, 2018, 3, 47.	1.3	6
2360	Modelling of a microgrid for high integration of renewable sources. , 2018, , .		0
2361	A digital approach to energy networks: Allocation and distribution of energy requests. , 2018, , .		1
2362	Modeling harmonic amplification effects of modern household devices. Electric Power Systems Research, 2018, 163, 28-37.	2.1	7
2363	A new multi-port active DC-link for PMG-based WECSs. , 2018, , .		4
2364	Frame-angle-based controller for 3Ï† interconnected PV systems. , 2018, , .		1
2365	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
2366	Impedance analysis and stabilization control of the LCL-type wind power inverter under weak grid conditions. Journal of Renewable and Sustainable Energy, 2018, 10, 035301.	0.8	1
2367	Modeling and design of solid state smart transformer for microgrid. , 2018, , .		4
2368	An overview of control techniques and technical challenge for inverters in micro grid. , 2018, , 97-107.		7
2369	Simple current control method for threeâ€phase VSC under unbalanced grid condition. IET Power Electronics, 2018, 11, 1161-1168.	1.5	7
2370	Harmonic voltage compensation by grid supporting controlled distributed generators. , 2018, , .		0
2371	Microgrid architecture, control, and operation. , 2018, , 23-37.		15
2372	Instantaneous Symmetrical Component Theory Based Parallel Grid Side Converter Control Strategy for Microgrid Power Management. IEEE Transactions on Sustainable Energy, 2019, 10, 682-692.	5.9	35
2373	Fast Estimation of Phase and Frequency for Single-Phase Grid Signal. IEEE Transactions on Industrial Electronics, 2019, 66, 6408-6411.	5.2	45
2374	Flexible harmonic current compensation strategy applied in single and three-phase photovoltaic inverters. International Journal of Electrical Power and Energy Systems, 2019, 104, 358-369.	3.3	22

#	Article	IF	Citations
2375	Hybrid UP-PWM Scheme for HERIC Inverter to Improve Power Quality and Efficiency. IEEE Transactions on Power Electronics, 2019, 34, 4292-4303.	5.4	38
2376	An Enhanced Lyapunov-Function Based Control Scheme for Three-Phase Grid-Tied VSI With LCL Filter. IEEE Transactions on Sustainable Energy, 2019, 10, 504-513.	5.9	45
2377	An Adaptive PR Controller for Synchronizing Grid-Connected Inverters. IEEE Transactions on Industrial Electronics, 2019, 66, 2034-2043.	5.2	63
2378	Impact of VSC Control Strategies and Incorporation of Synchronous Condensers on Distance Protection Under Unbalanced Faults. IEEE Transactions on Industrial Electronics, 2019, 66, 1108-1118.	5.2	64
2379	Multimode Operation for On-Line Uninterruptible Power Supply System. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 1181-1196.	3.7	24
2380	Sliding-Mode Control in Natural Frame With Reduced Number of Sensors for Three-Phase Grid-Tied <italic> LCL</italic>-Interfaced Inverters. IEEE Transactions on Industrial Electronics, 2019, 66, 2903-2913.	5.2	73
2381	Grid-Supporting Inverters With Improved Dynamics. IEEE Transactions on Industrial Electronics, 2019, 66, 3655-3667.	5.2	72
2382	Model-Based Current Control Strategy With Virtual Time Constant for Improved Dynamic Response of Three-Phase Grid-Connected VSI. IEEE Transactions on Industrial Electronics, 2019, 66, 4156-4165.	5.2	31
2383	Ancillary Services via VSIs in Microgrids With Maximum DC-Bus Voltage Utilization. IEEE Transactions on Industry Applications, 2019, 55, 648-658.	3.3	39
2384	Differences Between Continuous Single-Phase and Online Three-Phase Power-Decoupled Converters. IEEE Transactions on Power Electronics, 2019, 34, 3487-3503.	5.4	8
2385	Modeling and Stability Assessment of Single-Phase Grid Synchronization Techniques: Linear Time-Periodic Versus Linear Time-Invariant Frameworks. IEEE Transactions on Power Electronics, 2019, 34, 20-27.	5.4	32
2386	Instability of Grid Connected Converter Under Weak AC Grid Conditions. , 2019, , .		2
2387	Design of PLL gains to increase the stability margins of three-phase converters connected to weak grids. , 2019, , .		1
2388	Current controller design for DFIGâ€based wind turbines using state feedback control. IET Renewable Power Generation, 2019, 13, 1938-1948.	1.7	30
2389	Comparison of impedance behavior of UVRT-Container with medium voltage grid simulator in case of unsymmetrical voltage dip. , 2019, , .		4
2390	Effective integration of largeâ€scale wind power using PVâ€STATCOM. Journal of Engineering, 2019, 2019, 5303-5307.	0.6	6
2391	Economic Analysis of HRES Systems with Energy Storage During Grid Interruptions and Curtailment in Tamil Nadu, India: A Hybrid RBFNOEHO Technique. Energies, 2019, 12, 3047.	1.6	4
2392	Modeling and Stability Analysis of LCL -Type Grid-Connected Inverters: A Comprehensive Overview. IEEE Access, 2019, 7, 114975-115001.	2.6	92

#	Article	IF	Citations
2393	Transformerless Single-phase Grid-tied Micro Wind Turbine System Featuring Low Component-count. , 2019, , .		0
2394	A Control System of New Magnet Power Converter for J-PARC Main Ring Upgrade. IEEE Transactions on Nuclear Science, 2019, 66, 1236-1241.	1.2	2
2395	Hybrid Single Phase Wide Range Amplitude and Frequency Detection with Fast Reference Tracking. , 2019, , .		3
2396	Whales Optimization Algorithm Based Enhanced Power Controller for an Autonomous Microgrid System. , 2019, , .		4
2397	Low voltage ride through capability enhancement in a gridâ€connected wind/fuel cell hybrid system via combined feedâ€forward and fuzzy logic control. IET Generation, Transmission and Distribution, 2019, 13, 2866-2876.	1.4	18
2398	Power converters for battery energy storage systems connected to medium voltage systems: a comprehensive review. BMC Energy, 2019, 1, .	6.3	34
2399	Modeling and Mechanism Investigation of Inertia and Damping Issues for Grid-Tied PV Generation Systems with Droop Control. Energies, 2019, 12, 1985.	1.6	13
2400	Power Control and Fault Ride-Through Capability Analysis of Cascaded Star-Connected SVG under Asymmetrical Voltage Conditions. Energies, 2019, 12, 2361.	1.6	4
2401	An Integrated Design Approach for LCL-Type Inverter to Improve Its Adaptation in Weak Grid. Energies, 2019, 12, 2637.	1.6	4
2402	Control of distributed generation systems for microgrid applications: A technological review. International Transactions on Electrical Energy Systems, 2019, 29, e12072.	1.2	69
2403	Model predictive controller for singleâ€phase distributed generator with seamless transition between grid and offâ€grid modes. IET Generation, Transmission and Distribution, 2019, 13, 1829-1837.	1.4	6
2404	Modelling and simulation of variable speed pico hydel energy storage system for microgrid applications. Journal of Energy Storage, 2019, 24, 100808.	3.9	24
2405	Review of the current challenges and methods to mitigate power quality issues in singleâ€phase microgrids. IET Generation, Transmission and Distribution, 2019, 13, 2044-2054.	1.4	24
2406	A Novel DC-Link Voltage Control for Small-Scale Grid-Connected Wind Energy Conversion System. , 2019, , .		5
2407	Identification of the DQ Impedance Model for Three-Phase Power Converter Considering the Coupling Effect of the Grid Impedance. , 2019, , .		3
2408	A Modified Droop Control for Grid-Connected Inverters With Improved Stability in the Fluctuation of Grid Frequency and Voltage Magnitude. IEEE Access, 2019, 7, 75658-75669.	2.6	17
2409	Multiple-Vector Direct Model Predictive Control for Grid-Connected Power Converters with Reduced Calculation Burden. , 2019, , .		2
2410	Iterative design method of LCL filter for gridâ€connected converter to achieve optimal filter parameter combination. Journal of Engineering, 2019, 2019, 1532-1538.	0.6	6

#	Article	IF	Citations
2411	Cooperative Control for Distributed Energy Storage Systems with Different Droop Schemes. , 2019, , .		2
2412	Comparison of Synchronization Techniques Under Distorted Grid Conditions. IEEE Access, 2019, 7, 101345-101354.	2.6	26
2413	Shunt Active Power Filter: A Review on Phase Synchronization Control Techniques. Electronics (Switzerland), 2019, 8, 791.	1.8	59
2414	Ancillary Service with Grid Connected PV: A Real-Time Hardware-in-the-Loop Approach for Evaluation of Performances. Electronics (Switzerland), 2019, 8, 809.	1.8	8
2415	Adaptive Command-Filtered Backstepping Control for Virtual Synchronous Generators. Energies, 2019, 12, 2681.	1.6	8
2416	Stability Analysis and Improvement of Three-Phase Grid-Connected Power Converters with Virtual Inertia Control. , 2019, , .		1
2417	A Novel Orthogonal Current Decomposition Control for Grid-Connected Voltage Source Converter. IEEE Transactions on Industry Applications, 2019, 55, 7628-7641.	3.3	21
2418	A novel MPPT technique to increase accuracy in photovoltaic systems under variable atmospheric conditions using Fuzzy Gain scheduling. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2021, 43, 2960-2982.	1.2	11
2419	Power converter solutions and controls for green energy. , 2019, , 357-387.		17
2420	Resonance Detection Strategy for Multi-Parallel Inverter-Based Grid-Connected Renewable Power System Using Cascaded SOGI-FLL. Sustainability, 2019, 11, 4839.	1.6	6
2421	Analysis of Inertia Characteristics of Direct-Drive Permanent-Magnet Synchronous Generator in Micro-Grid. Energies, 2019, 12, 3141.	1.6	7
2422	Improved Operation Strategy with Alternative Control Targets for Voltage Source Converter under Harmonically Distorted Grid Considering Inter-Harmonics. Energies, 2019, 12, 1236.	1.6	4
2423	Introduction to smart grid and internet of energy systems. , 2019, , 1-62.		2
2424	Pre-synchronization Control Method of Virtual Synchronous Generator with Alterable Inertia. , 2019, , .		8
2425	A practical design procedure for robust <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e971" altimg="si263.svg"><mml:msub><mml:mrow><mml:mi mathvariant="script">H</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math> controllers applied to grid-connected inverters. Control Engineering Practice, 2019, 92, 104157.	3.2	17
2426	Real-time Simulation of Synchronverter Connected to the Main Grid. , 2019, , .		2
2427	A new unified control strategy for inverter-based micro-grid using hybrid droop scheme. AEJ - Alexandria Engineering Journal, 2019, 58, 1229-1245.	3.4	9
2428	A System Emulator for AC Microgrid Testing. IEEE Transactions on Industry Applications, 2019, 55, 6538-6547.	3.3	9

#	Article	IF	Citations
2429	Resource Management for Uninterrupted Microgrid Operation. , 2019, , .		2
2430	An investigation on active and reactive power flow control based on grid-tied parallel inverters. AIP Conference Proceedings, 2019, , .	0.3	2
2431	Functions of Microgrid Hierarchal Control Structure. , 2019, , .		2
2432	Trends in the protection of inverterâ€based microgrids. IET Generation, Transmission and Distribution, 2019, 13, 4511-4522.	1.4	24
2433	Internet of Things Applications as Energy Internet in Smart Grids and Smart Environments. Electronics (Switzerland), 2019, 8, 972.	1.8	110
2434	A Dual-Loop Current Control Structure With Improved Disturbance Rejection for Grid-Connected Converters. IEEE Transactions on Power Electronics, 2019, 34, 10233-10244.	5.4	22
2435	The Study for the LCL Grid-connected Inverter Stability Problem Caused by Digital Delay. , 2019, , .		0
2436	Retrofitting the RSMPPT Technique to Lower Installation Cost. , 2019, , .		0
2437	Accurate Open-Loop Impedance Model of Single-Phase Voltage Source Inverter (VSI) Considering the Dead-Time Effects. , 2019, , .		4
2438	Disturbance Rejection Consensus Tracking of Multi-Agent System for Nonlinear Dynamic Model of Synchronous Generators in Micro-Grids. , 2019, , .		1
2439	Module Integrated Buck Inverter: Analysis and Design. IEEE Transactions on Industry Applications, 2019, 55, 5013-5022.	3.3	8
2440	Hardware-in-loop Control of a Standalone Microgrid. , 2019, , .		3
2441	On the Stability of Power Electronics-Dominated Systems: Challenges and Potential Solutions. IEEE Transactions on Industry Applications, 2019, 55, 7657-7670.	3.3	109
2442	Impact of Feed-forward and Decoupling Terms on Stability of Grid-Connected Inverters. , 2019, , .		6
2443	An adaptive disturbance rejection control scheme for voltage regulation in DC micro-grids. , 2019, , .		1
2444	Design of Observer-Based SMC Controller for Three-Phase LCL-Filtered Grid-Connected Inverters with Less Sensors. , 2019, , .		0
2445	BEEER. , 2019, , .		0
2446	Investigation on the Combined Effect of VSC-Based Sources and Synchronous Condensers Under Grid Unbalanced Faults. IEEE Transactions on Power Delivery, 2019, 34, 1898-1908.	2.9	30

#	Article	IF	Citations
2447	Characteristic Analysis of the Grid-Connected Impedance-Source Inverter for PV Applications. , 2019, , .		3
2448	Characterization of the Grid-Forming Function of a Power Source Based on its External Frequency Smoothing Capability. , 2019, , .		7
2449	A Novel Adaptive Observer-Based DC-Link Voltage Control for Grid-Connected Power Converters. , 2019, , .		2
2450	Modeling and Optimization of a Grid Connected Photovoltaic Energy Conversion System Based on Advanced Nonlinear Control. , 2019, , .		2
2451	Design of Proportional-Resonant Controller with Zero Steady-State Error for a Single-Phase Grid-Connected Voltage Source Inverter with an LCL Output Filter. , 2019, , .		25
2452	Hybrid Control Law for a Three-Level NPC Rectifier. , 2019, , .		3
2453	Design of LCL-Filter for Grid-Connected Buck-Boost Inverter Based on Unfolding Circuit. , 2019, , .		1
2454	A Neural-Network-Based Model Predictive Control of Three-Phase Inverter With an Output LC Filter. IEEE Access, 2019, 7, 124737-124749.	2.6	140
2455	A Self-Synchronising Stationary Frame Current Control Strategy for Grid-Connected Converters with Integrated Frequency Tracking. , 2019, , .		6
2456	Design and simulation of developed embedded Z-source inverter for photovoltaic interface. AIP Conference Proceedings, 2019, , .	0.3	0
2457	A new hybrid control scheme for minimizing torque and flux ripple for DFIGâ€based WES under random change in wind speed. International Transactions on Electrical Energy Systems, 2019, 29, e2818.	1.2	8
2458	Multiâ€functional distributed generation control scheme for improving the grid power quality. IET Power Electronics, 2019, 12, 30-43.	1.5	24
2459	PIâ€based controller for lowâ€power distributed inverters to maximise reactive current injection while avoiding over voltage during voltage sags. IET Power Electronics, 2019, 12, 83-91.	1.5	16
2460	Robust Control of Three-Phase Voltage Source Converters Under Unbalanced Grid Conditions. IEEE Transactions on Power Electronics, 2019, 34, 11278-11289.	5.4	35
2461	Robust and Fast Voltage-Source-Converter (VSC) Control for Naval Shipboard Microgrids. IEEE Transactions on Power Electronics, 2019, 34, 8299-8303.	5.4	68
2462	Speed Control for Turbine-Generator of ORC Power Generation System and Experimental Implementation. Energies, 2019, 12, 200.	1.6	5
2463	An Adaptive Frequency Phase-Locked Loop Based on a Third Order Generalized Integrator. Energies, 2019, 12, 309.	1.6	22
2464	Damping performance improvement for PV-integrated power grids via retrofit control. Control Engineering Practice, 2019, 84, 92-101.	3.2	7

#	Article	IF	Citations
2465	An Overview of Assessment Methods for Synchronization Stability of Grid-Connected Converters Under Severe Symmetrical Grid Faults. IEEE Transactions on Power Electronics, 2019, 34, 9655-9670.	5.4	226
2466	Voltage Source Operation of the Energy-Router Based on Model Predictive Control. Energies, 2019, 12, 1892.	1.6	17
2467	Multiloop current control for an inductiveâ€“capacitiveâ€“inductiveâ€filtered gridâ€connected inverter with frequencyâ€adaptive capability under distorted grid environment. IET Power Electronics, 2019, 12, 1521-1531.	1.5	8
2468	Dynamic Analysis of Grid-Connected Droop-Controlled Converters and Synchronverters. Journal of Control, Automation and Electrical Systems, 2019, 30, 741-753.	1.2	16
2470	Comparative analysis of MPPT algorithms bioâ€inspired by grey wolves employing a feedâ€forward control loop in a threeâ€phase gridâ€connected photovoltaic system. IET Renewable Power Generation, 2019, 13, 1379-1390.	1.7	25
2471	Energy storage system control algorithm for voltage regulation with active and reactive power injection in low-voltage distribution network. Electric Power Systems Research, 2019, 174, 105825.	2.1	26
2472	Harmonic Transfer-Function Model of Three-Phase Synchronous Reference Frame PLL under Unbalanced Grid Conditions. , 2019, , .		5
2473	A Synchronous Reference Frame based Decentralized Control Architecture for Inverters Connected to an Autonomous Microgrid. , 2019, , .		6
2474	The Impact of PLL Dynamics on the Low Inertia Power Grid: A Case Study of Bonaire Island Power System. Energies, 2019, 12, 1259.	1.6	28
2475	Grid connection technique based on Î¼ theory for a twoâ€stage PV structure. IET Power Electronics, 2019, 12, 1545-1553.	1.5	12
2476	A Tunable Power Sharing Control Scheme for the Output-Series DAB DCâ€“DC System With Independent or Common Input Terminals. IEEE Transactions on Power Electronics, 2019, 34, 9386-9391.	5.4	24
2477	Energy and economic efficiency performance assessment of a 28â€¯kWp photovoltaic grid-connected system under desertic weather conditions in Algerian Sahara. Renewable Energy, 2019, 143, 1318-1330.	4.3	52
2478	Frequency domain analysis of wind farm on the damping characteristics of a nearby synchronous generator. IEEJ Transactions on Electrical and Electronic Engineering, 2019, 14, 1164-1171.	0.8	0
2480	Need for Energy Storage. , 2019, , 3-30.		0
2481	Technical and Economic Aspects. , 2019, , 31-48.		0
2482	Energy Storage Technologies. , 2019, , 49-92.		0
2483	Power System Model. , 2019, , 95-144.		0
2484	Voltage-Sourced Converter Model. , 2019, , 145-172.		0

#	Article	IF	Citations
2485	Energy Storage System Models. , 2019, , 173-212.		0
2486	Comparison of Dynamic Models. , 2019, , 215-226.		0
2487	Control Techniques. , 2019, , 227-268.		0
2488	Stability Analysis. , 2019, , 269-296.		0
2495	Enhanced control strategies for a hybrid battery/photovoltaic system using FGS-PID in grid-connected mode. International Journal of Hydrogen Energy, 2019, 44, 14642-14660.	3.8	55
2496	Perturbation analysis and comparison of network synchronization methods. Physical Review E, 2019, 99, 052207.	0.8	5
2497	Dynamic Characteristics and Test Results of a Wave Power Takeoff System With Mechanical Motion Rectification and Transmission. IEEE Transactions on Industrial Electronics, 2021, 68, 12262-12271.	5.2	4
2498	Multi-Functional Model Predictive Control with Mutual Influence Elimination for Three-Phase AC/DC Converters in Energy Conversion. Energies, 2019, 12, 1616.	1.6	1
2499	Observer-Based Sliding Mode Control to Improve Stability of Three-Phase LCL-Filtered Grid-Connected VSIs. Energies, 2019, 12, 1421.	1.6	10
2500	Modelling and stability analysis of virtual synchronous machine using harmonic stateâ€space modelling method. Journal of Engineering, 2019, 2019, 2597-2603.	0.6	6
2501	Battery Storage Integration in Voltage Unbalance and Overvoltage Mitigation Control Strategies and Its Impact on the Power Quality. Energies, 2019, 12, 1501.	1.6	19
2502	Robust distributed synchronization of networked linear systems with intermittent information. Automatica, 2019, 105, 323-333.	3.0	19
2503	A survey on control issues in renewable energy integration and microgrid. Protection and Control of Modern Power Systems, 2019, 4, .	4.3	200
2504	Impact of Cooling System Capacity on Lifetime of Power Module in Adjustable Speed Drives. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 1768-1776.	3.7	13
2505	Stability analysis of distributed generation gridâ€connected inverter. Journal of Engineering, 2019, 2019, 1388-1392.	0.6	1
2506	A New Transformerless Common-Ground Single-Phase Inverter for Photovoltaic Systems. , 2019, , .		6
2507	Reactive Power Synchronization Method for Voltage-Sourced Converters. IEEE Transactions on Sustainable Energy, 2019, 10, 1430-1438.	5.9	14
2508	Implementation of DQ0 control methods in high power electronics devices for renewable energy sources, energy storage and FACTS. Sustainable Energy, Grids and Networks, 2019, 18, 100218.	2.3	15

#	Article	IF	Citations
2509	Adaptive Slope Voltage Control for Distributed Generation Inverters With Improved Transient Performance. IEEE Transactions on Energy Conversion, 2019, 34, 1644-1654.	3.7	5
2510	An Online Coordinated Charging/Discharging Strategy of Plug-in Electric Vehicles in Unbalanced Active Distribution Networks with Ancillary Reactive Service in the Energy Market. Energies, 2019, 12, 1350.	1.6	11
2511	Improved Frequency Locked Loop Based Synchronization Method for Three-Phase Grid-Connected Inverter under Unbalanced and Distorted Grid Conditions. Energies, 2019, 12, 1023.	1.6	12
2512	Distributed data clustering over networks. Pattern Recognition, 2019, 93, 603-620.	5.1	18
2513	A Robust Second-Order Sliding Mode Control for Single-Phase Photovoltaic Grid-Connected Voltage Source Inverter. IEEE Access, 2019, 7, 53202-53212.	2.6	65
2514	Adaptive Virtual Inertia Control Strategy of VSG for Micro-Grid Based on Improved Bang-Bang Control Strategy. IEEE Access, 2019, 7, 39509-39514.	2.6	97
2515	A Stationary-Frame Current Vector Control Strategy for Single-Phase PWM Rectifier. IEEE Transactions on Vehicular Technology, 2019, 68, 2640-2651.	3.9	18
2516	Robust Control Strategy Design for Single-Phase Grid-Connected Converters Under System Perturbations. IEEE Transactions on Industrial Electronics, 2019, 66, 8892-8901.	5.2	30
2517	Current Control of Grid-Tied LCL-VSI With a Sliding Mode Controller in a Multiloop Approach. IEEE Transactions on Power Electronics, 2019, 34, 12356-12367.	5.4	24
2518	A Modified $Q-dot{V}$ Droop Control for Accurate Reactive Power Sharing in Distributed Generation Microgrid. IEEE Transactions on Industry Applications, 2019, 55, 4100-4109.	3.3	41
2519	Optimal control strategies for a hybrid renewable energy system: an ALANN/RNN technique. Soft Computing, 2019, 23, 13459-13475.	2.1	14
2520	Design and Analysis of Triplen Controlled Resonant Converter for Renewable Sources to Interface DC Micro Grid. IEEE Access, 2019, 7, 15330-15339.	2.6	3
2522	The Analysis of Technical Trend in Islanding Operation, Harmonic Distortion, Stabilizing Frequency, and Voltage of Islanded Entities. Resources, 2019, 8, 14.	1.6	10
2523	Impedance-Based Interactions in Grid-Tied Three-Phase Inverters in Renewable Energy Applications. Energies, 2019, 12, 464.	1.6	20
2524	Sensitivity analysis, adaptability improvement and control of grid-connected photovoltaic power plants under grid frequency variations. Solar Energy, 2019, 184, 260-272.	2.9	7
2525	Capacitor-Current Proportional-Integral Positive Feedback Active Damping for LCL-Type Grid-Connected Inverter to Achieve High Robustness Against Grid Impedance Variation. IEEE Transactions on Power Electronics, 2019, 34, 12423-12436.	5.4	83
2526	Real-Time Simulator based hybrid control of DFIG-WES. ISA Transactions, 2019, 93, 325-340.	3.1	19
2527	An improved design strategy for approximation-based adaptive event-triggered tracking of a class of uncertain nonlinear systems. Journal of the Franklin Institute, 2019, 356, 4378-4396.	1.9	12

#	Article	IF	Citations
2528	An Adaptive Virtual Impedance Control Scheme Based on Small-AC-Signal Injection for Unbalanced and Harmonic Power Sharing in Islanded Microgrids. IEEE Transactions on Power Electronics, 2019, 34, 12333-12355.	5.4	111
2529	Direct Power Control of PWM Rectifiers With Online Inductance Identification Under Unbalanced and Distorted Network Conditions. IEEE Transactions on Power Electronics, 2019, 34, 12524-12537.	5.4	41
2530	Systematic controller design for digitally controlled LCL-type grid-connected inverter with grid-current-feedback active damping. International Journal of Electrical Power and Energy Systems, 2019, 110, 642-652.	3.3	18
2531	Adaptive Virtual Impedance of Grid-Tied Inverters to Enhance the Stability in a Weak Grid. Journal of Electrical Engineering and Technology, 2019, 14, 1235-1246.	1.2	2
2532	A Carrier Synchronization Method for Global Synchronous Pulsewidth Modulation Application Using Phase-Locked Loop. IEEE Transactions on Power Electronics, 2019, 34, 10720-10732.	5.4	20
2533	Lyapunov Function Based Control for Grid-Interfacing Solar Photovoltaic System with Constant Voltage MPPT Technique. Advances in Intelligent Systems and Computing, 2019, , 210-219.	0.5	1
2534	A New Frequency Control Strategy in an Islanded Microgrid Using Virtual Inertia Control-Based Coefficient Diagram Method. IEEE Access, 2019, 7, 16979-16990.	2.6	94
2535	A Design Methodology of Multiresonant Controllers for High Performance 400 Hz Ground Power Units. IEEE Transactions on Industrial Electronics, 2019, 66, 6549-6559.	5.2	16
2536	Stability Analysis and Auto-Tuning of Interlinking Converters Connected to Weak Grids. IEEE Transactions on Power Electronics, 2019, 34, 9435-9446.	5.4	31
2537	Voltage-Modulated Direct Power Control for a Weak Grid-Connected Voltage Source Inverters. IEEE Transactions on Power Electronics, 2019, 34, 11383-11395.	5.4	77
2538	Improvement of Power Quality Using Backstepping Control Strategy for a Transformerless Dual-Stage Grid-Connected Photovoltaic System. Advances in Science, Technology and Innovation, 2019, , 193-200.	0.2	6
2539	Study on Control of Hybrid Photovoltaic-Wind Power System Using Xilinx System Generator. Power Systems, 2019, , 97-120.	0.3	2
2540	Loop Shaping by Single-Resonant Controllers for Prescribed Tracking of Sinusoidal References. IEEE Transactions on Power Electronics, 2019, 34, 11352-11360.	5.4	17
2541	Microgrid control methods toward achieving sustainable energy management. Applied Energy, 2019, 240, 583-607.	5.1	93
2542	Study of Optical Configurations for Multiple Enhancement of Microalgal Biomass Production. Scientific Reports, 2019, 9, 1723.	1.6	9
2543	Wind Turbines Integration into Power Systems: Advanced Control Strategy for Harmonics Mitigation. Power Systems, 2019, , 89-112.	0.3	0
2544	Control of a Three-Phase Grid-Connected Inverter Under Non-Ideal Grid Conditions With Online Parameter Update. IEEE Transactions on Energy Conversion, 2019, 34, 1613-1622.	3.7	27
2545	A Novel Deadbeat Control for Three-Phase Grid-Connected VSI with an Output LCL Filter in Natural Frame. , 2019, , .		1

#	Article	IF	Citations
2546	High Frequency Resonance Analysis of Distributed Storage Converter and Design of Output Filter. , 2019, , .		0
2547	Investigation of Voltage Regulation with Active and Reactive Power with Distributed Loads on a Radial Distribution Feeder. , 2019, , .		1
2548	Estimation of Power Imbalance Size with Consideration of Impact of Emulated Inertia. , 2019, , .		0
2549	A Robust Dual-Loop Current Control Method With a Delay-Compensation Control Link for LCL-Type Shunt Active Power Filters. IEEE Transactions on Power Electronics, 2019, 34, 6183-6199.	5.4	48
2550	Simulation and Energy Management Interface of an Autonomous DC Microgrid. , 2019, , .		0
2551	Unidirectional isolated highâ€frequency link DC/AC converter for grid integration of DC sources. IET Renewable Power Generation, 2019, 13, 2880-2887.	1.7	2
2552	Indirect Model Predictive Control for Inverter Connected to Distorted Grid with Significant Computation Delay. , 2019, , .		0
2553	A Simplified Wide-Bandwidth Generalized Impedance Model for Single-Phase Grid-Connected Inverter in Polar Coordinate System. , 2019, , .		0
2554	Grid Connected Micro-inverter Based Solar PV System for Rural School Application. , 2019, , .		1
2555	Current-Limiting Droop Controller for Single-Phase Inverters Operating in Island Mode. , 2019, , .		0
2556	Innovations on the control of VSC-based dc-links connecting distributed generation to the grid. , 2019, , .		0
2557	Monitoring and Control of MultiBus Microgrid System Using FPGA Platform. , 2019, , .		3
2558	Integrated design method for LCLâ€type filter and current controller to improve inverter adaptability to grid impedance. IET Power Electronics, 2019, 12, 3295-3305.	1.5	1
2559	Comprehensive Analysis of SOGI-PLL Based Algorithms for Single-Phase System. , 2019, , .		15
2560	An adaptive Virtual Impedance Control Method to Enhance PCC Voltage Quality of Islanded Microgrid. , 2019, , .		0
2561	Grid-Connected Single-Phase 3L-T-type qZS Inverter for Renewable Energy. , 2019, , .		2
2562	Data Generation Method Based on Correlation Between Sensors in Photovoltaic Arrays. , 2019, , .		0
2563	A Review on Operation, Control and Protection of Smart Microgrids. , 2019, , .		17

#	Article	IF	Citations
2564	Virtual inertia impact on the performance of photovoltaic system. , 2019, , .		1
2565	An Unconstrained Voltage Support Scheme for Distributed Generation Connected to Resistive-Inductive Grid under Unbalanced Conditions. , 2019, , .		4
2566	Hybrid algorithm for reactive power control in grid integrated Photovoltaic inverters. , 2019, , .		2
2567	Passivity Based Impedance Shaping Method for LCL Filtered Voltage Source Converter. , 2019, , .		0
2568	Fractional Phase Lead Compensation for PIMR-type Repetitive Control on a Grid-tied Inverter. , 2019, , .		2
2569	Load Frequency Control in Microgrid with CHP Based on Generalized Predictive Control. , 2019, , .		1
2570	Small Signal Model of the Buck-Boost Bidirectional DC-AC Converter Based on Unfolding Circuit. , 2019, , .		1
2571	Case Studies for Non-Detection of Islanding by Grid-Connected In-Parallel Photovoltaic and Electrical Energy Storage Systems Inverters. Applied Sciences (Switzerland), 2019, 9, 817.	1.3	2
2572	Comparison of Islanding and Synchronization for a Microgrid with Different Converter Control. , 2019, , .		4
2573	Avoiding Power Clipping Losses by Inverter having High DC-to-AC Loading Ratio in Grid Connected Solar PV Plant Using Battery Energy Storage System. , 2019, , .		4
2574	Distributed Finite-Time Coordination Control system for Economical Operation of Islanded DC Microgrids. , 2019, , .		3
2575	Control Strategy Design and Dynamic Analysis of Grid-Connected Inverter Based on Virtual Synchronous Generator. , 2019, , .		1
2576	An Artificial Neural Network-Based Frequency Nadir Estimation Approach for Distributed Virtual Inertia Control. , 2019, , .		1
2577	A Novel DROGI Based Control Algorithm Without PLL for Shunt Compensation Using Four-leg Converter. , 2019, , .		0
2578	A Delay Compensation Method to Improve the Current Control Performance of the LCL-Type Grid-Connected Inverter. , 2019, , .		2
2579	Sensors and Game Synchronization for Data Analysis in eSports. , 2019, , .		10
2580	Stability Analysis of a Parallel-Converter System with Master/Slave Configuration. , 2019, , .		3
2581	Design and Development of AC Microgrid Power Conditioning Unit for Renewable Energy Integration. , 2019, , .		0

#	Article	IF	Citations
2582	Analysis of Inertia Mechanism of Grid-tied Photovoltaic Power Generation System With Virtual Inertia Control. , 2019, , .		4
2583	Forecasting Based Virtual Inertia Control of PV Systems for Islanded Micro-Grid. , 2019, , .		6
2584	Robust Control of Switched Reluctance Generator In Connection With a Grid-Tied Inverter. , 2019, , .		4
2585	Grid Integration of Three-phase Inverter using Decoupled Double Synchronus Reference Frame PLL. , 2019, , .		8
2586	Power Sharing in an Islanded Microgrid without Synchronous Generators. , 2019, , .		2
2587	Optimization of the PI controller to improve the dynamic performance of grid-connected photovoltaic system. , 2019, , .		2
2588	Evaluation of Control Strategies within Hybrid DC/AC Microgrids using Typhoon HIL. , 2019, , .		5
2589	On Numerical Integration Techniques and Time step selection for Real-time Emulation - Case study of Microgrid System Emulation. , 2019, , .		3
2590	Intelligent control strategy for power management in hybrid renewable energy system. , 2019, , .		2
2591	Power Quality Improvement Using Virtual Flux Combined Control of Grid Connected Converters under Balanced and Unbalanced Grid Operation. , 2019, , .		8
2592	Frequency Support From Kinetic Energy of DFIG-Based Wind Turbines Considering Speed Limitation. , 2019, , .		2
2593	Stability Analysis of Multi-Paralleled Grid-Connected Inverters with LCL-Filter in the Weak Grid. , 2019, , .		4
2594	Frequency support provision by parallel, hybrid HVDC-HVAC system with Voltage-based Load Control. , 2019, , .		2
2595	Voltage Management by Grid-connected PV-STATCOM Inverter for Distribution System. , 2019, , .		1
2596	Fractional order sliding mode approach for chattering free direct power control of dc/ac converter. IET Power Electronics, 2019, 12, 3600-3610.	1.5	19
2597	Coupling Effect of Active and Reactive Power Controls on Synchronous Stability of VSGs. , 2019, , .		4
2598	Filters for Grid Connected Self-Synchronized Synchronverter. , 2019, , .		0
2599	A Switching-Gain Controller for Grid-Connected MMC Complying with Voltage Ride-Through Requirements. , 2019, , .		0

#	Article	IF	Citations
2600	Performance Improvement of a Grid-Connected Inverter under Distorted Grid Voltage Using a Harmonic Extractor. Electronics (Switzerland), 2019, 8, 1038.	1.8	5
2601	Feasibility of an Agent-Based Investment Platform for Renewable Energy Source Implementation. , 2019, , .		0
2602	Control delay compensation scheme based on nonâ€instantaneous loading and pulseâ€width equivalence for active damping of LCL â€type inverters. IET Power Electronics, 2019, 12, 2389-2399.	1.5	15
2603	Using Synchronverter in Distributed Generation for Frequency and Voltage Grid Support. , 2019, , .		0
2604	Power Converters Classification and Characterization in Power Transmission Systems. , 2019, , .		9
2605	Fractional-order Sliding Mode Control Strategy for Quasi-Z Source Photovoltaic Grid-Connected Inverter. , 2019, , .		4
2606	Research on Power System Relay Protection Method Based on Machine Learning Algorithm. E3S Web of Conferences, 2019, 136, 02012.	0.2	1
2607	A Novel Phase-Locked Loop with Positive and Negative Sequence Detection Capability. , 2019, , .		0
2608	Single-phase photovoltaic grid-connected inverter for predictive control method with power feed-forward. IOP Conference Series: Earth and Environmental Science, 2019, 354, 012086.	0.2	0
2609	Research on LCL filter considering grid impedance. IOP Conference Series: Earth and Environmental Science, 2019, 354, 012098.	0.2	0
2610	Integral Sliding Mode Compound Control Strategy for Quasi-Z Source Grid-Connected Inverter. , 2019, , .		1
2611	A Fundamental Study on LCLCL Filters for Grid-connected inverters. , 2019, , .		0
2612	Droop based Low voltage ride through implementation for grid integrated photovoltaic system. , 2019, , .		3
2613	A Parallel Fast Delayed Signal Cancellation PLL for Unbalanced and Distorted Grid Applications. , 2019, , .		0
2614	Analysis of Passive Filters for PV Inverters Under Variable Irradiances. , 2019, , .		9
2615	Wearable Exoskeleton Assisted Rehabilitation in Multiple Sclerosis by Using an Intelligent Control Method. , 2019, , .		0
2616	Novel PLL for power converters under unbalanced and distorted grid conditions. Journal of Engineering, 2019, 2019, 3895-3899.	0.6	7
2617	Improving quality of supply in smallâ€scale lowâ€voltage active networks by providing islanded operation capability. IET Renewable Power Generation, 2019, 13, 2665-2672.	1.7	2

#	Article	IF	Citations
2618	A New Self-Synchronized Strategy for Grid-Connected Three Phase Voltage Source Inverters. , 2019, , .		2
2619	Design and Performance Analysis of Synchronization techniques under Non-Ideal conditions. , 2019, , .		0
2620	Voltage Segment Coordinated Control Strategy for Isolated DC Microgrid with Multiple Energy Storage Units. , 2019, , .		3
2621	Energy Management of a Dual Hybrid Energy Storage System of PV Microgrids in Grid-connected Mode Based on Adaptive PQ Control. , 2019, , .		5
2622	FAULT ANALYSIS OF STRING BASED INVERTERS PV PLANT WITH THE REFERENCE TO HARMONICS RESONANCE EFFECT. , 2019, , .		1
2623	Machine Learning Based Islanding Detection for Grid Connected Photovoltaic System. , 2019, , .		7
2624	Power Factor Correction and Harmonic Elimination for LCL-Filtered Three-Level Photovoltaic Inverter with Inverter-Side Current Control. , 2019, , .		5
2625	Three-Phase Magnetic-Less Boosting Multilevel Inverter Topology With Reduced Components. , 2019, , .		2
2626	An Improved Pre-Filtered Three-Phase SRF-PLL for Rapid Detection of Grid Voltage Attributes. , 2019, , .		3
2627	Droop Control Method of Inverter Based on Variable Virtual Impedance. , 2019, , .		4
2628	Robust control of grid-connected converters under wide grid impedance variation. , 2019, , .		1
2629	Extended Modulus Optimum Method for Off-Grid Inverterâ€™s Voltage Control System. , 2019, , .		0
2630	Dual Grid Voltage Modulated Direct Power Control of Grid-Connected Voltage Source Converter under Unbalanced Network Condition. , 2019, , .		4
2631	Grid integration and a power quality assessment of a waveâ€energy park. IET Smart Grid, 2019, 2, 625-634.	1.5	5
2632	Model Predictive Control for Buck-Boost Inverter Based on Unfolding Circuit. , 2019, , .		4
2633	A New Active Damping Control Strategy for LCL Converter in Hybrid Coordinate System. , 2019, , .		1
2634	Stability margin definition for a converter-grid system based on diagonal dominance property in the sequence-frame. , 2019, , .		2
2635	Harmonics Reduction for Four-Leg Distribution Network-Connected Single Phase Transformerless PV Inverter System Using Diagonal Recurrent Neural Network. , 2019, , .		2

#	Article	IF	Citations
2636	Performance Comparison of Active Rectifier Control Schemes in More Electric Aircraft Applications. IEEE Transactions on Transportation Electrification, 2019, 5, 1470-1479.	5.3	27
2637	Synchronverter Operation in Active and Reactive Support Mode. , 2019, , .		1
2638	Implementation of a DG interconnection system by using the Virtual Synchronous Generator Approach. , 2019, , .		1
2639	Improvement of transient stability in microgrids using RSFCL with series active power filter. SN Applied Sciences, 2019, 1, 1.	1.5	5
2640	A Modified PBC Controller Using Dynamic Damping Injection for LCL-Filtered Grid-Tied Inverter with Zero Steady State Error. , 2019, , .		1
2641	Synthetic Inertia for Frequency Regulation of Electric Grid using Modular-Multilevel Converter. , 2019, , .		2
2642	Three-Phase Bridgeless AC/DC PFC with LLC Resonant Circuit for High Efficiency and Low Input Current THD. , 2019, , .		0
2643	PLL-Less Three-Phase Droop-Controlled Inverter with Inherent Current-Limiting Property. , 2019, , .		7
2644	Photovoltaic-Based Water Pumping System using Brushless DC motor. , 2019, , .		0
2645	Analysis of linear Phase-Locked Loops in Grid-Connected Power Converters. , 2019, , .		2
2646	Large Signal Stability Assessment of the Grid-Connected Converters based on its Inertia. , 2019, , .		1
2647	Interactions Between Phase-locked Loop Synchronized Grid Converters With Different Bandwidths and Power Ratings. , 2019, , .		1
2648	A Closed-loop Global Synchronous PWM Method for Immunizing Parameters Uncertainty in Distributed Parallel-Connected VSIs. , 2019, , .		0
2649	Grid-Tied Inverter with Simplified Virtual Synchronous Compensator for Grid Services and Grid Support. , 2019, , .		9
2650	Evaluation of Voltage Regulators for Dual-Loop Control of Voltage-Controlled VSCs. , 2019, , .		16
2651	Improvements on Harmonic Current Distortion for MHz-Operated Discontinuous Current Mode Single Phase Grid-Tied Inverter with GaN-HEMT Device. , 2019, , .		3
2652	Port-Controlled Hamiltonian and Energy-Shaping Based Current Control Scheme for Grid-Connected Inverter. , 2019, , .		1
2653	Impacts of an improper change of control from P-Q to f-V of an inverter-based DER still connected to the grid. , 2019, , .		0

#	Article	IF	Citations
2654	Control of a Three-Phase Grid-Tied Inverter Designed for Discontinuous Current Mode Operation. , 2019, , .		4
2655	An Improved Time-Delay Compensation Scheme for Enhancing Control Performance of Digitally Controlled Grid-Connected Inverter. , 2019, , .		8
2656	Influence of the ICFF Decoupling Technique on the Stability of the Current Control Loop of a Grid-Tied VSC. , 2019, , .		4
2657	On the Stability of Virtual Inertia Control Implemented by Grid-Connected Power Converters with Delay Effects. , 2019, , .		1
2658	Conceptual Systematic Stability Analysis of Power Electronics based Power Systems. , 2019, , .		4
2659	Virtual Synchronous Generator Design Based Modular Multilevel Converter for Microgrid Frequency Regulation. , 2019, , .		6
2660	Self-Synchronising Stationary Frame Current Regulation for Grid-Connected LCL Converters Under Unbalanced Grid Voltage Conditions. , 2019, , .		6
2661	Passivity Analysis and Enhancement of Voltage Control for Voltage-Source Converters. , 2019, , .		5
2662	Security Analysis of Power Electronic-based Power Systems. , 2019, , .		3
2663	A New Approach to H-Infinity Control for Grid-Connected Inverters in Photovoltaic Generation Systems. Electric Power Components and Systems, 2019, 47, 1413-1422.	1.0	9
2664	Synchronization and Current Sharing for Nonlinear-oscillator-based Inverters in Islanded Three-phase Microgrid. , 2019, , .		9
2665	A Dynamical Model for a Hydrostatic Wind Turbine Transmission Coupled to the Grid with a Synchronous Generator. , 2019, , .		0
2666	Stability Analysis for the Grid-Connected Single-Phase Asymmetrical Cascaded Multilevel Inverter With SRF-PI Current Control Under Weak Grid Conditions. IEEE Transactions on Power Electronics, 2019, 34, 2052-2069.	5.4	61
2667	A Fixed-Length Transfer Delay Based Adaptive Frequency-Locked Loop for Single-Phase Systems. IEEE Transactions on Power Electronics, 2019, 34, 4000-4004.	5.4	33
2668	Frequency Derivative-Based Inertia Enhancement by Grid-Connected Power Converters With a Frequency-Locked-Loop. IEEE Transactions on Smart Grid, 2019, 10, 4918-4927.	6.2	100
2669	Interlinking Converter to Improve Power Quality in Hybrid ACâ€“DC Microgrids With Nonlinear Loads. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 1959-1968.	3.7	25
2671	Power electronic technologies for PV systems. , 2019, , 15-43.		8
2672	Control of PV systems under normal grid conditions. , 2019, , 75-112.		2

#	Article	IF	Citations
2673	Advanced control of PV systems under anomaly grid conditions. , 2019, , 113-152.		3
2674	A Generalized Droop Control for Grid-Supporting Inverter Based on Comparison Between Traditional Droop Control and Virtual Synchronous Generator Control. IEEE Transactions on Power Electronics, 2019, 34, 5416-5438.	5.4	341
2675	Overvoltage and voltage unbalance mitigation in areas with high penetration of renewable energy resources by using the modified three-phase damping control strategy. Electric Power Systems Research, 2019, 168, 283-294.	2.1	39
2676	A comprehensive survey on control strategies of distributed generation power systems under normal and abnormal conditions. Annual Reviews in Control, 2019, 47, 112-132.	4.4	65
2677	Core Percolation in Interdependent Networks. IEEE Transactions on Network Science and Engineering, 2019, 6, 952-967.	4.1	5
2678	Coordinated control of MPPT and voltage regulation using single-stage high gain DCâ€“DC converter in a grid-connected PV system. Electric Power Systems Research, 2019, 169, 65-73.	2.1	43
2679	Derivation and Analysis of the Primal-Dual Method of Multipliers Based on Monotone Operator Theory. IEEE Transactions on Signal and Information Processing Over Networks, 2019, 5, 334-347.	1.6	19
2680	A Novel Three-Phase Transformerless H-8 Topology With Reduced Leakage Current for Grid-Tied Solar PV Applications. IEEE Transactions on Industry Applications, 2019, 55, 1765-1774.	3.3	47
2681	Vector Current Control Derived from Direct Power Control for Grid-Connected Inverters. IEEE Transactions on Power Electronics, 2019, 34, 9224-9235.	5.4	79
2682	The development and utilization of microgrid technologies in China. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2019, 41, 1535-1556.	1.2	8
2683	Experimental Validation of Harmonic Impedance Measurement and LTP Nyquist Criterion for Stability Analysis in Power Converter Networks. IEEE Transactions on Power Electronics, 2019, 34, 7972-7982.	5.4	26
2684	Harmonic Compensation Optimization for Multiple Parallel Distributed Generators. IEEE Transactions on Power Electronics, 2019, 34, 7103-7112.	5.4	3
2685	Analysis of a static model for DC microgrids based on droop and MPPT control. International Transactions on Electrical Energy Systems, 2019, 29, e2778.	1.2	6
2686	PV-Battery Series Inverter Architecture: A Solar Inverter for Seamless Battery Integration With Partial-Power DCâ€“DC Optimizer. IEEE Transactions on Energy Conversion, 2019, 34, 478-485.	3.7	44
2687	Improved Model Predictive Control by Robust Prediction and Stability-Constrained Finite States for Three-Phase Inverters With an Output LC Filter. IEEE Access, 2019, 7, 12673-12685.	2.6	25
2688	Precompensator for Disturbance Signal Elimination in Single-Phase Inverters With Virtual Vector Control. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 184-195.	3.7	2
2689	Modular Design Methodology of DC Breaker Based on Discrete Metal Oxide Varistors With Series Power Electronic Devices for HVdc Application. IEEE Transactions on Industrial Electronics, 2019, 66, 7653-7662.	5.2	63
2690	Modular Multilevel Converter Synthetic Inertia-Based Frequency Support for Medium-Voltage Microgrids. IEEE Transactions on Industrial Electronics, 2019, 66, 8992-9002.	5.2	59

#	Article	IF	Citations
2691	Large Signal Synchronizing Instability of PLL-Based VSC Connected to Weak AC Grid. IEEE Transactions on Power Systems, 2019, 34, 3220-3229.	4.6	195
2692	Continuous state space model of the ITER pulsed power electrical network for stability analysis. Fusion Engineering and Design, 2019, 139, 62-73.	1.0	3
2693	A Distributed Control Strategy for Islanded Single-Phase Microgrids with Hybrid Energy Storage Systems Based on Power Line Signaling. Energies, 2019, 12, 85.	1.6	13
2694	Fuzzy scheduling of robust controllers for islanded DC microgrids applications. International Journal of Dynamics and Control, 2019, 7, 690-700.	1.5	9
2695	Dynamic energy management and control of a grid-interactive DC microgrid system. , 2019, , 41-67.		5
2696	Design-Oriented Transient Stability Analysis of Grid-Connected Converters With Power Synchronization Control. IEEE Transactions on Industrial Electronics, 2019, 66, 6473-6482.	5.2	174
2697	Power quality enrichment using enhanced adaptive control-detuned-LC proposal in voltage source control conquered distributed generation with hardware implementation. Transactions of the Institute of Measurement and Control, 2019, 41, 2451-2464.	1.1	0
2698	Robust Control of Grid-Tied Parallel Inverters Using Nonlinear Backstepping Approach. IEEE Access, 2019, 7, 111982-111992.	2.6	23
2699	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
2700	A Cross-Regulated Closed-Loop Control for Hybrid L-Z Source Inverter. IEEE Transactions on Industry Applications, 2019, 55, 1983-1997.	3.3	9
2701	Virtual Inductance for Stable Operation of Grid-Interactive Voltage Source Inverters. IEEE Transactions on Industrial Electronics, 2019, 66, 6002-6011.	5.2	60
2702	Weighting Factor Design in Model Predictive Control of Power Electronic Converters: An Artificial Neural Network Approach. IEEE Transactions on Industrial Electronics, 2019, 66, 8870-8880.	5.2	219
2703	Grid connected converters as reactive power ancillary service providers: Technical analysis for minimum required DC-link voltage. Mathematics and Computers in Simulation, 2019, 158, 344-354.	2.4	12
2704	Voltage Sensorless Control of VIENNA Rectifier in the Input Current Oriented Reference Frame. IEEE Transactions on Power Electronics, 2019, 34, 8079-8091.	5.4	33
2705	On the Performance of the Frame-Angle Controller for <inline-formula> <tex-math notation="LaTeX">$3phi$</tex-math> </inline-formula> Interconnected PV Systems. IEEE Transactions on Industry Applications, 2019, 55, 1189-1201.	3.3	1
2706	Three-Vector-Based Low-Complexity Model Predictive Direct Power Control Strategy for PWM Rectifier Without Voltage Sensors. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 240-251.	3.7	45
2707	Distributed Average Integral Secondary Control for Modular UPS Systems-Based Microgrids. IEEE Transactions on Power Electronics, 2019, 34, 6922-6936.	5.4	35
2708	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
2709	Optimum Design of Power Converter Current Controllers in Large-Scale Power Electronics Based Power Systems. IEEE Transactions on Industry Applications, 2019, 55, 2792-2799.	3.3	14
2710	Submodule Voltage Similarity-Based Open-Circuit Fault Diagnosis for Modular Multilevel Converters. IEEE Transactions on Power Electronics, 2019, 34, 8008-8016.	5.4	61
2711	Nonlinear Decoupling Control of Two-Terminal MMC-HVDC Based on Feedback Linearization. IEEE Transactions on Power Delivery, 2019, 34, 376-386.	2.9	30
2712	Robust multisampled capacitor voltage active damping for grid-connected power converters. International Journal of Electrical Power and Energy Systems, 2019, 105, 741-752.	3.3	31
2713	Robust <inline-formula> <tex-math notation="LaTeX">$mathcal {H}_{infty }$</tex-math> </inline-formula> State Feedback Controllers Based on Linear Matrix Inequalities Applied to Grid-Connected Converters. IEEE Transactions on Industrial Electronics, 2019, 66, 6021-6031.	5.2	56
2714	Distributed Control of Power Grids. Power Electronics and Power Systems, 2019, , 85-98.	0.6	0
2715	Transient Stability Analysis and Control Design of Droop-Controlled Voltage Source Converters Considering Current Limitation. IEEE Transactions on Smart Grid, 2019, 10, 578-591.	6.2	266
2716	Fast Finite-Switching-State Model Predictive Control Method Without Weighting Factors for T-Type Three-Level Three-Phase Inverters. IEEE Transactions on Industrial Informatics, 2019, 15, 1298-1310.	7.2	122
2717	Harmonic Stability in Power Electronic-Based Power Systems: Concept, Modeling, and Analysis. IEEE Transactions on Smart Grid, 2019, 10, 2858-2870.	6.2	710
2718	On Transient Responses of a Class of PV Inverters. IEEE Transactions on Sustainable Energy, 2019, 10, 311-314.	5.9	13
2719	A Distributed Control Architecture for Global System Economic Operation in Autonomous Hybrid AC/DC Microgrids. IEEE Transactions on Smart Grid, 2019, 10, 2603-2617.	6.2	61
2720	Asymmetric H-Bridge Single-Phase Seven-Level Inverter Topology with Proportional Resonant Controller. IETE Journal of Research, 2019, 65, 19-32.	1.8	4
2721	Intelligent hybrid power generation system using new hybrid fuzzy-neural for photovoltaic system and RBFNSM for wind turbine in the grid connected mode. Frontiers in Energy, 2019, 13, 131-148.	1.2	51
2722	Feedback Linearization Based Distributed Model Predictive Control for Secondary Control of Islanded Microgrid. Asian Journal of Control, 2020, 22, 460-473.	1.9	21
2723	Suppression of Second-Order Harmonic Current for Droop-Controlled Distributed Energy Resource Converters in DC Microgrids. IEEE Transactions on Industrial Electronics, 2020, 67, 358-368.	5.2	39
2724	A Design Method of Phase-Locked Loop for Grid-Connected Converters Considering the Influence of Current Loops in Weak Grid. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 2420-2429.	3.7	49
2725	Robust Quasi-Predictive Control of LCL-Filtered Grid Converters. IEEE Transactions on Power Electronics, 2020, 35, 1934-1946.	5.4	38
2726	A Study of Virtual Resistor-Based Active Damping Alternatives for LCL Resonance in Grid-Connected Voltage Source Inverters. IEEE Transactions on Power Electronics, 2020, 35, 247-262.	5.4	90

#	Article	IF	Citations
2727	Three-Phase Isolated Multimodular Converter in Renewable Energy Distribution Systems. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 854-865.	3.7	22
2728	Multilevel Inverter (MLI)-Based Stand-Alone Photovoltaic System: Modeling, Analysis, and Control. IEEE Systems Journal, 2020, 14, 909-915.	2.9	31
2729	Optimization and Implementation of the Proportional-Resonant Controller for Grid-Connected Inverter With Significant Computation Delay. IEEE Transactions on Industrial Electronics, 2020, 67, 1201-1211.	5.2	68
2730	Control Design and Stability Analysis of Power Converters: The MIMO Generalized Bode Criterion. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 1880-1893.	3.7	25
2731	The Electronic Realization of Synchronous Machines: Model Matching, Angle Tracking, and Energy Shaping Techniques. IEEE Transactions on Power Electronics, 2020, 35, 4398-4410.	5.4	46
2732	Analysis and comparative studies on impact of Transport Delay and Transforms on the performance of TD-PLL for single phase GCI under grid disturbances. International Journal of Electrical Power and Energy Systems, 2020, 115, 105488.	3.3	11
2733	Modeling and simulation of novel dynamic control strategy for PVâ€“wind hybrid power system using FGSâ^'PID and RBFNSM methods. Soft Computing, 2020, 24, 8403-8425.	2.1	16
2734	A New Population-Based Optimization Method for Online Minimization of Voltage Harmonics in Islanded Microgrids. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 1084-1088.	2.2	17
2735	${mathsf Gamma}$-Source Magnetic Integrated Filter for Single-Phase Grid Tied Voltage Source Converters. IEEE Transactions on Industrial Electronics, 2020, 67, 5410-5420.	5.2	5
2736	Sine Cosine Optimization Based Proportional Derivative-Proportional Integral Derivative Controller for Frequency Control of Hybrid Power System. Advances in Intelligent Systems and Computing, 2020, , 789-797.	0.5	6
2737	A Hybrid Passivity-Based Control Strategy for Three-Level T-Type Inverter in LVRT Operation. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 4009-4024.	3.7	19
2738	An Active Impedance-Source Three-Level T-Type Inverter With Reduced Device Count. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 2966-2976.	3.7	21
2739	A Novel Mixture Solid-State Switch Based on IGCT With High Capacity and IGBT With High Turn-off Ability for Hybrid DC Breakers. IEEE Transactions on Industrial Electronics, 2020, 67, 4485-4495.	5.2	39
2740	Multi Objective Modulated Model Predictive Control of Stand-Alone Voltage Source Converters. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 2559-2571.	3.7	27
2741	A Harmonic Compensation System With Embedded Load Observer for Micro-Grids in the Islanded Mode of Operation. IEEE Transactions on Power Electronics, 2020, 35, 1406-1424.	5.4	3
2742	Modulation for the AVC-HERIC Inverter to Compensate for Deadtime and Minimum Pulsewidth Limitation Distortions. IEEE Transactions on Power Electronics, 2020, 35, 2571-2584.	5.4	16
2743	An Adaptive Power Sharing Control for Management of DC Microgrids Powered by Fuel Cell and Storage System. IEEE Transactions on Industrial Electronics, 2020, 67, 3726-3735.	5.2	21
2744	Modeling of the Phase Detector of a Synchronous-Reference-Frame Phase-Locked Loop Based on Second-Order Approximation. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 2534-2545.	3.7	17

#	Article	IF	Citations
2745	Diagnosis and mitigation of voltage and current sensors malfunctioning in a grid connected PV system. International Journal of Electrical Power and Energy Systems, 2020, 115, 105381.	3.3	17
2746	Multiple Nonlinear Harmonic Oscillator-Based Frequency Estimation for Distorted Grid Voltage. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 2817-2825.	2.4	31
2747	Modeling Phase-Locked Loop-Based Synchronization in Grid-Interfaced Converters. IEEE Transactions on Energy Conversion, 2020, 35, 394-404.	3.7	43
2748	All-Pass-Filter-Basedâ€‰PLLâ€‰Systems:â€‰Linearâ€‰Modeling, Analysis, and Comparative Evaluation. IEEE Transactions on Power Electronics, 2020, 35, 3558-3572.	5.4	56
2749	Cost-Effective Islanded Electrical System With Decentralized Interleaving PWM for Converter Harmonic Reduction. IEEE Transactions on Industrial Electronics, 2020, 67, 8472-8483.	5.2	9
2750	Optimal Voltage-Support Control for Distributed Generation Inverters in RL Grid-Faulty Networks. IEEE Transactions on Industrial Electronics, 2020, 67, 8405-8415.	5.2	32
2751	Seamless Dynamics for Wild-Frequency Active Rectifiers in More Electric Aircraft. IEEE Transactions on Industrial Electronics, 2020, 67, 7135-7145.	5.2	13
2752	Combined Control of Grid Connected Converters Based on a Flexible Switching Table for Fast Dynamic and Reduced Harmonics. IEEE Transactions on Energy Conversion, 2020, 35, 77-84.	3.7	13
2753	A novel hybrid coordinates multiple decoupled phaseâ€locked loop under nonideal grid conditions. IEEJ Transactions on Electrical and Electronic Engineering, 2020, 15, 268-277.	0.8	1
2754	Control technique for single phase inverter photovoltaic system connected to the grid. Energy Reports, 2020, 6, 200-208.	2.5	21
2755	An Efficient Wind Speed Computation Method Using Sliding Mode Observers in Wind Energy Conversion System Control Applications. IEEE Transactions on Industry Applications, 2020, 56, 730-739.	3.3	40
2756	Mission Profile-Oriented Control for Reliability and Lifetime of Photovoltaic Inverters. IEEE Transactions on Industry Applications, 2020, 56, 601-610.	3.3	58
2757	Improved Design of PLL Controller for LCL-Type Grid-Connected Converter in Weak Grid. IEEE Transactions on Power Electronics, 2020, 35, 4715-4727.	5.4	120
2758	A Decoupled Hybrid Current Control for Improving the Performance of 60Â° DPWM-Based Three-Phase Grid-Connected Inverter. IEEE Access, 2020, 8, 876-888.	2.6	1
2759	Three-Loop-Based Universal Control Architecture for Decentralized Operation of Multiple Inverters in an Autonomous Grid-Interactive Microgrid. IEEE Transactions on Industry Applications, 2020, 56, 1966-1979.	3.3	19
2760	A Reconfigurable Solar Photovoltaic Grid-Tied Inverter Architecture for Enhanced Energy Access in Backup Power Applications. IEEE Transactions on Industrial Electronics, 2020, 67, 10531-10541.	5.2	20
2761	Automatic Voltage Regulation of Grid Connected Photovoltaic System Using Lyapunov Based Sliding Mode Controller: A Finite â€" Time Approach. International Journal of Control, Automation and Systems, 2020, 18, 1550-1560.	1.6	26
2762	Cyber Security in Control of Grid-Tied Power Electronic Convertersâ€"Challenges and Vulnerabilities. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 5326-5340.	3.7	90

#	Article	IF	Citations
2763	An Open-Loop Synchronization Technique With Simple Structure for Phase Error Compensation and Frequency Estimation. IEEE Transactions on Industrial Electronics, 2020, 67, 8936-8940.	5.2	23
2764	Robust Control Parameters Design of PBC Controller for LCL-Filtered Grid-Tied Inverter. IEEE Transactions on Power Electronics, 2020, 35, 8102-8115.	5.4	35
2765	Online optimal stationary reference frame controller for inverter interfaced distributed generation in a microgrid system. Energy Reports, 2020, 6, 134-145.	2.5	10
2766	Modeling of initial fault response of inverter-based distributed energy resources for future power system planning. International Journal of Electrical Power and Energy Systems, 2020, 117, 105722.	3.3	12
2767	Analysis of STATCOM Small-Signal Impedance in the Synchronous d-q Frame. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 1894-1910.	3.7	13
2768	Dynamic Phasor Modeling and Stability Analysis of SRF-PLL-Based Grid-Tie Inverter Under Islanded Conditions. IEEE Transactions on Industry Applications, 2020, 56, 1953-1965.	3.3	44
2769	Self-Synchronizing VSM With Seamless Operation During Unintentional Islanding Events. IEEE Transactions on Industrial Informatics, 2020, 16, 5680-5690.	7.2	11
2770	Synchronization and chimera state in a mechanical system. Nonlinear Dynamics, 2020, 102, 907-925.	2.7	9
2771	Optimal LCL-filter study for Buck-Boost Inverter Based on Unfolding Circuit. , 2020, , .		5
2772	Current Control and Active Damping for Single Phase LCL-Filtered Grid Connected Inverter. Journal of Control Science and Engineering, 2020, 2020, 1-12.	0.8	4
2773	Reactive Power Control Strategy for Single-Phase Grid-connected PV System. , 2020, , .		1
2774	Wide Frequency Band Single-Phase Amplitude and Phase Angle Detection Based on Integral and Derivative Actions. Electronics (Switzerland), 2020, 9, 1578.	1.8	1
2775	Modelâ€Based Discrete Sliding Mode Control with Disturbance Observer for Threeâ€Phase LCL â€Filtered Gridâ€Connected Inverters. IEEJ Transactions on Electrical and Electronic Engineering, 2020, 15, 1520-1529.	0.8	5
2776	Power Quality Improvement in Solar Fed Cascaded Multilevel Inverter With Output Voltage Regulation Techniques. IEEE Access, 2020, 8, 178360-178371.	2.6	42
2777	Modelling of a wave-to-wire system for a wave farm and its response analysis against power quality and grid codes. Renewable Energy, 2020, 162, 2041-2055.	4.3	19
2778	Gridâ€connected photovoltaic inverters with lowâ€voltage ride through for a residentialâ€scale system: A review. International Transactions on Electrical Energy Systems, 2021, 31, e12630.	1.2	10
2779	Enhanced method for considering energy storage systems as ancillary service resources in stochastic unit commitment. Energy, 2020, 213, 118675.	4.5	20
2780	Resilient Synchronization of Grid Converters at Low Sampling Frequencies. , 2020, , .		1

#	Article	IF	Citations
2781	Improved multifunctional controller for power quality enhancement in grid integrated solar photovoltaic systems. World Journal of Engineering, 2020, 17, 585-598.	1.0	3
2782	An Adaptive Proportional Feedforward Scheme for LCL-Type Grid-Connected Inverter. , 2020, , .		2
2783	Transient Stability of V_{dc} â€“ Q Control-Based PV Generator With Voltage Support Connected to Grid Modelled as Synchronous Machine. IEEE Access, 2020, 8, 130354-130366.	2.6	6
2784	Coupled Modeling and Advanced Control for Smooth Operation of a Grid-Connected Linear Electric Generator Based Wave-to-Wire System. IEEE Transactions on Industry Applications, 2020, 56, 5575-5584.	3.3	36
2785	A review on current injection techniques for low-voltage ride-through and grid fault conditions in grid-connected photovoltaic system. Solar Energy, 2020, 207, 851-873.	2.9	35
2786	Correction of Line-voltage Unbalance by the Decentralized Inverters in an Islanded Microgrid. , 2020, , .		2
2787	Validation of Thermal Stress Modeling in PV Inverters under Mission Profile Operation. , 2020, , .		0
2789	Possible Power Quality Ancillary Services in Low-Voltage Grids Provided by the Three-Phase Damping Control Strategy. Applied Sciences (Switzerland), 2020, 10, 7876.	1.3	5
2790	Study of Power Factor Correction Technique for a grid connected Hybrid System. , 2020, , .		1
2791	Proportional complex integral based control of distributed energy converters connected to unbalanced grid system. Control Engineering Practice, 2020, 103, 104574.	3.2	2
2792	Stability and Control Aspects of Microgrid Architecturesâ€“A Comprehensive Review. IEEE Access, 2020, 8, 144730-144766.	2.6	172
2793	A Simulation Analysis of VSM Control for RES plants in a Small Mediterranean Island. , 2020, , .		1
2794	Supervision based Smart Microgrid Systems: Grid Connected, Island Mode and Seamless Transition. , 2020, , .		1
2795	Time-delay compensation and weighted feedforward control for reducing current harmonic of grid-connected inverter in weak power network. IOP Conference Series: Earth and Environmental Science, 2020, 526, 012123.	0.2	0
2796	Hybrid LQR-PI Control for Microgrids under Unbalanced Linear and Nonlinear Loads. Mathematics, 2020, 8, 1096.	1.1	9
2797	Incremental Conductance Based Particle Swarm Optimization Algorithm for Global Maximum Power Tracking of Solar-PV under Nonuniform Operating Conditions. Applied Sciences (Switzerland), 2020, 10, 4575.	1.3	31
2798	Control and Design of Seven-Level Cascaded Multilevel Converter for Transformerless Large-Scale Photovoltaic Integration. Journal of the Institution of Engineers (India): Series B, 2020, 101, 623-629.	1.3	4
2799	Comparative Analysis of Three Non-Linear Control Strategies for Grid-Connected PV System. IETE Journal of Research, 2022, 68, 3739-3749.	1.8	3

#	Article	IF	Citations
2800	Delay-Aware Risk Analysis and Control in Smart Grid Networks with Corrupted Measurements. , 2020, , .		1
2801	Maximum Power Point Tracking of Variable-Speed Wind Turbines Using Self-Tuning Fuzzy PID. Technology and Economics of Smart Grids and Sustainable Energy, 2020, 5, 1.	1.8	6
2802	Adaptive Proportional Complex Integral Control Strategy of Three-Phase Grid-connected PV Inverter. Journal of Physics: Conference Series, 2020, 1549, 052110.	0.3	0
2803	Adaptive fuzzy control with an optimization by using genetic algorithms for grid connected a hybrid photovoltaicâ€“hydrogen generation system. International Journal of Hydrogen Energy, 2020, 45, 22589-22599.	3.8	28
2804	Transient behaviour of an AC microgrid subjected to discrete events. Electric Power Systems Research, 2020, 189, 106597.	2.1	0
2805	Sustainability Outcomes of Green Processes in Relation to Industry 4.0 in Manufacturing: Systematic Review. Sustainability, 2020, 12, 5968.	1.6	79
2806	A Soft-switching Step Down Converter for Point of Load Applications. , 2020, , .		1
2807	A Comparative Study of Control Methods for Grid Side Converters in PMSG-Based Wind Energy Conversion Systems. , 2020, , .		7
2808	Frequency and Phase Synchronization of Dispersed Generation AC System with Renewable DC through Passivity-Based Control. , 2020, , .		0
2809	Modified virtual synchronous generator basedâ€primary frequency regulation for renewable generation integrated into power system. IET Generation, Transmission and Distribution, 2020, 14, 4435-4443.	1.4	5
2810	Prefiltered Synchronization Structure for Grid-Connected Power Converters to Reduce the Stability Impact of PLL Dynamics. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 5499-5507.	3.7	16
2811	Improving the Cross-Border Activation of the Regulating Reserve to Enhance the Provision of Load-Frequency Control. IEEE Access, 2020, 8, 170696-170712.	2.6	0
2812	DC Series Arc Fault Detection Algorithm for Distributed Energy Resources Using Arc Fault Impedance Modeling. IEEE Access, 2020, 8, 179039-179046.	2.6	22
2813	A New Structure for PMG-Based WECSs With Battery Storage Systems. IEEE Access, 2020, 8, 190356-190366.	2.6	3
2814	Distributed Economic Dispatch for Islanded DC Microgrids Based on Finite-Time Consensus Protocol. IEEE Access, 2020, 8, 192457-192468.	2.6	10
2815	A Control Strategy of Microgrid-Connected System Based on VSG. , 2020, , .		3
2816	Reduced-Order Thermal Modeling for Photovoltaic Inverters Considering Mission Profile Dynamics. IEEE Open Journal of Power Electronics, 2020, 1, 407-419.	4.0	10
2817	Robust Control of Grid-Tied Inverters using Particle Swarm Optimization and Linear Matrix Inequalities. , 2020, , .		2

#	Article	IF	Citations
2818	Grid-Synchronization Stability of Converter-Based Resourcesâ€"An Overview. IEEE Open Journal of Industry Applications, 2020, 1, 115-134.	4.8	329
2819	Adaptive Selective Harmonic Elimination Model Predictive Control for Three-Level T-Type Inverter. IEEE Access, 2020, 8, 157983-157994.	2.6	8
2820	Modulation Techniques for a Modified Three-Phase Quasi-Switched Boost Inverter With Common-Mode Voltage Reduction. IEEE Access, 2020, 8, 160670-160683.	2.6	19
2821	Leaderâ€"Follower Synchronization of Uncertain Eulerâ€"Lagrange Dynamics with Input Constraints. Aerospace, 2020, 7, 127.	1.1	8
2822	Protective Coordination of the OCR with the Voltage Component in a Closed-Loop Power Distribution System with the FCL. Journal of Electrical Engineering and Technology, 2020, 15, 2451-2457.	1.2	0
2823	A Battery Storage System for PMG-based WECSs. , 2020, , .		0
2824	Finite-Time Disturbance-Observer-Based Integral Terminal Sliding Mode Controller for Three-Phase Synchronous Rectifier. IEEE Access, 2020, 8, 152116-152130.	2.6	15
2825	Quasi-Z Source T-Type Power Converter for PV Based Commercial and Industrial Nanogrids with Active Functions Strategy. Electronics (Switzerland), 2020, 9, 1233.	1.8	1
2826	A Comprehensive Review on Grid Connected Photovoltaic Inverters, Their Modulation Techniques, and Control Strategies. Energies, 2020, 13, 4185.	1.6	59
2827	Powerâ€current coordinated control without sequence extraction under unbalanced voltage conditions. IET Power Electronics, 2020, 13, 2274-2280.	1.5	3
2828	JITL based Fault Detection of DAB DC-DC Converter with EPS Control. , 2020, , .		3
2829	Grid-Connected PV Generation Systemâ€"Components and Challenges: A Review. Energies, 2020, 13, 4279.	1.6	44
2830	Harmonic Resonance Analysis for Wind Integrated Power System and Optimized Filter Design. , 2020, , .		0
2831	An Improved Harmonic Extraction Method for Grid Interactive Power Electronic Systems. , 2020, , .		0
2832	Performance Evaluation of a PV Inverter with Active Filter Functionalities. , 2020, , .		0
2833	Modeling and Analysis of Weak Grid Considering Phase Locked Loop and Synchronous Condenser Effect on Grid Stability. , 2020, , .		1
2834	Control Strategies and Power Decoupling Topologies to Mitigate 2Ï‰-Ripple in Single-Phase Inverters: A Review and Open Challenges. IEEE Access, 2020, 8, 147533-147559.	2.6	43
2835	Control and analysis of a 3â€level diodeâ€clamped split source inverter in the applications of gridâ€tied photovoltaic systems. International Transactions on Electrical Energy Systems, 2020, 30, e12573.	1.2	3

#	Article	IF	Citations
2836	A Comprehensive Review of Hybrid Energy Storage Systems: Converter Topologies, Control Strategies and Future Prospects. IEEE Access, 2020, 8, 148702-148721.	2.6	152
2837	Regularized NLMS Control for Power Quality Improvement in Grid-connected PV Systems. , 2020, , .		0
2838	Voltage Source Converters Connected to Very Weak Grids: Accurate Dynamic Modeling, Small-Signal Analysis, and Stability Improvement. IEEE Access, 2020, 8, 201120-201133.	2.6	20
2839	Impedance Modeling and Stability Analysis of the IMAF-PLL-Based NPC Three-Level LCL Grid-Connected Inverter. IEEE Access, 2020, 8, 217615-217627.	2.6	1
2840	Online Assessment of Transient Stability of Grid Connected PV Generator With DC Link Voltage and Reactive Power Control. IEEE Access, 2020, 8, 220606-220619.	2.6	6
2841	Multi Reference Modulation Based Grid Integration of Cascaded Half Bridge MLI for Medium Voltage PV Application. , 2020, , .		2
2842	Analogized Synchronous-Generator Model of PLL-Based VSC and Transient Synchronizing Stability of Converter Dominated Power System. IEEE Transactions on Sustainable Energy, 2021, 12, 1174-1185.	5.9	34
2843	Modeling and Stability Analysis of Grid-Following Voltage-Source Converters Utilizing Individual Channel Design Method. , 2020, , .		1
2844	Energy Management Supervisory Controller Embedded-Board for Islanded Hybrid AC/DC Microgrids. , 2020, , .		0
2845	Passivity-based Design of Capacitor-Current-Feedback Active Damping for LCL-Filtered Inverter Considering Computation Delay Reduction. , 2020, , .		2
2846	High-Order Observer-Based Sliding Mode Control for the Isolated Microgrid with Cyber Attacks and Physical Uncertainties. Complexity, 2020, 2020, 1-11.	0.9	1
2847	A Comprehensive Motivation of Multilayer Control Levels for Microgrids: Synchronization, Voltage and Frequency Restoration Perspective. Applied Sciences (Switzerland), 2020, 10, 8355.	1.3	10
2848	Modeling Voltage Source Converters for Harmonic Power Flow Studies. IEEE Transactions on Power Delivery, 2021, 36, 3426-3437.	2.9	15
2849	An Adaptive Model-Based MPPT Technique with Drift-Avoidance for Grid-Connected PV Systems. Energies, 2020, 13, 6656.	1.6	20
2850	Energies and Its Worldwide Research. Energies, 2020, 13, 6700.	1.6	14
2851	Virtual Synchronous Control for Fuel Cell Power Generation System. IOP Conference Series: Earth and Environmental Science, 2020, 610, 012007.	0.2	2
2852	AC sampling method based on improved half-wave Fourier algorithm. Journal of Physics: Conference Series, 2020, 1633, 012104.	0.3	0
2853	A Robust Multivariable Approach for Current Control of Voltage-Source Converters in Synchronous Frame. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 6174-6183.	3.7	9

#	Article	IF	Citations
2854	Control Structure for Bidirectional Battery Charger Integrating 3Ï† PFC AC/DC and CLLC DC/DC Converters. , 2020, , .		1
2855	To study unplanned islanding transient response of microgrid by implementing MSOG and SRFâ€PLL based hierarchical control in the presence of nonâ€linear loads. IET Renewable Power Generation, 2020, 14, 881-890.	1.7	4
2856	Hardware-in-the-Loop Simulation of Grid-tied Converter for Unity Power Factor Operation. , 2020, , .		3
2857	Finite Control Set Model Predictive Control with Secondary Problem Formulation for Power Loss and Thermal Stress Reductions. IEEE Transactions on Industry Applications, 2020, , 1-1.	3.3	21
2858	Steady-State Analysis of Microgrid Distributed Control Under Denial of Service Attacks. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 5311-5325.	3.7	19
2859	Lithium-ion BESS Integration for Smart Grid Applications - ECM Modelling Approach. , 2020, , .		8
2860	Enhancements in Micro-Grid Operation through Electric Vehicle Charging and Discharging. , 2020, , .		0
2861	Double Vector Model Predictive Control to Reduce Common-Mode Voltage Without Weighting Factors for Three-Level Inverters. IEEE Transactions on Industrial Electronics, 2020, 67, 8980-8990.	5.2	40
2862	Mapping the Academic Landscape of the Renewable Energy Field in Electrical and Electronic Disciplines. Applied Sciences (Switzerland), 2020, 10, 2879.	1.3	5
2863	Analytical Modeling of Neutral Point Current in T-type Three-level PWM Converter. Energies, 2020, 13, 1324.	1.6	4
2864	Power Quality Enhancement of Grid-Connected Solar Photovoltaic System Using LCL Filter. , 2020, , .		6
2865	CMPN Adaptive Control Algorithm For Double Stage PV-Grid Connected System. , 2020, , .		0
2867	Experimental Evaluation of Internal Model Control for 3Ï• Grid-tied Solar PV Inverter. , 2020, , .		1
2868	Modeling and Stability Analysis of a Smart Transformer-Fed Grid. IEEE Access, 2020, 8, 91876-91885.	2.6	5
2869	Variable step size perturb and observe MPPT controller by applying Î¸-modified krill herd algorithm-sliding mode controller under partially shaded conditions. Journal of Cleaner Production, 2020, 271, 122243.	4.6	36
2870	Stability and control of power systems with high penetrations of inverter-based resources: An accessible review of current knowledge and open questions. Solar Energy, 2020, 210, 149-168.	2.9	55
2871	Modeling, Analysis, and Design of Resonant Proportional Stationary Frame Current Controller for Grid-Tide Three Phase Controller. , 2020, , .		2
2872	A dual-current control loop for Balanced and Unbalanced Current control for LCL filter interfaced Grid connected VSIs. , 2020, , .		2

#	Article	IF	Citations
2873	Control and operation of a threeâ€phase local energy router for prosumers in a smart community. IET Renewable Power Generation, 2020, 14, 560-570.	1.7	18
2874	Stability Blind-Area-Free Control Design for Microgrid-Interfaced Voltage Source Inverters Under Dual-Mode Operation. IEEE Transactions on Power Electronics, 2020, 35, 12555-12569.	5.4	9
2875	Improved robustâ€mixedâ€normâ€based controller for gridâ€tied PV systems under voltage disturbances. IET Generation, Transmission and Distribution, 2020, 14, 2610-2619.	1.4	2
2876	Analysis and enhancement of PV efficiency with hybrid MSFLAâ€“FLC MPPT method under different environmental conditions. Journal of Cleaner Production, 2020, 271, 122195.	4.6	58
2877	Comprehensive perspective on virtual inductor for improved power decoupling of virtual synchronous generator control. IET Renewable Power Generation, 2020, 14, 485-494.	1.7	23
2878	Primary Frequency Response Improvement in Interconnected Power Systems Using Electric Vehicle Virtual Power Plants. World Electric Vehicle Journal, 2020, 11, 40.	1.6	22
2879	Reduction of harmonic current distortion for singleâ€phase gridâ€tied inverter operated in discontinuous current mode. IEEJ Transactions on Electrical and Electronic Engineering, 2020, 15, 947-955.	0.8	7
2880	A New Guideline for Security Assessment of Power Systems with a High Penetration of Wind Turbines. Applied Sciences (Switzerland), 2020, 10, 3190.	1.3	10
2881	Optimal Allocation of Distributed Generation Considering Protection. Energies, 2020, 13, 2402.	1.6	6
2882	Voltage Fed Control of Distributed Power Generation Inverters with Inherent Service to Grid Stability. Energies, 2020, 13, 2579.	1.6	3
2883	Improved Direct Model Predictive Control for Grid-Connected Power Converters. Energies, 2020, 13, 2597.	1.6	13
2884	Stability Assessment of Grid-Connected Converter System Based on Impedance Model and Gershgorin Theorem. IEEE Transactions on Energy Conversion, 2020, 35, 1559-1566.	3.7	14
2885	Grid Integration of Small-Scale Photovoltaic Systems in Secondary Distribution Networkâ€”A Review. IEEE Transactions on Industry Applications, 2020, 56, 3178-3195.	3.3	117
2886	Design and performance analysis of improved Adaline technique for synchronization and load compensation of gridâ€tied photovoltaic system. International Transactions on Electrical Energy Systems, 2020, 30, e12388.	1.2	7
2887	Secondary Control for Storage Power Converters in Isolated Nanogrids to Allow Peer-to-Peer Power Sharing. Electronics (Switzerland), 2020, 9, 140.	1.8	7
2888	Sustainable production of wind energy in the main Morocco's sites using permanent magnet synchronous generators. International Transactions on Electrical Energy Systems, 2020, 30, e12390.	1.2	14
2889	Energy management and control strategy for DC microgrid based on DMPPT technique. IET Power Electronics, 2020, 13, 658-668.	1.5	7
2891	Implementation of a novel hybrid BAT-Fuzzy controller based MPPT for grid-connected PV-battery system. Control Engineering Practice, 2020, 98, 104380.	3.2	65

#	Article	IF	Citations
2892	Analysis of the Converter Synchronizing Method for the Contribution of Battery Energy Storage Systems to Inertia Emulation. Energies, 2020, 13, 1478.	1.6	19
2893	Analysis and Mitigation of the Impact of Ancillary Services on Anti-Islanding Protection of Distributed Generators. IEEE Transactions on Sustainable Energy, 2020, 11, 2950-2961.	5.9	12
2894	A Self-Adaptive Damping Control Strategy of Virtual Synchronous Generator to Improve Frequency Stability. Processes, 2020, 8, 291.	1.3	5
2895	Synchronous Voltage Controllers: Voltage-Based Emulation of Synchronous Machines for the Integration of Renewable Energy Sources. IEEE Access, 2020, 8, 49497-49508.	2.6	12
2896	Addressing Abrupt PV Disturbances, and Mitigating Net Load Profileâ€™s Ramp and Peak Demands, Using Distributed Storage Devices. Energies, 2020, 13, 1024.	1.6	17
2897	Phase synchronization of autonomous AC grid system with passivityâ€based control. International Journal of Circuit Theory and Applications, 2020, 48, 906-918.	1.3	3
2898	A State-of-the-Art 500-kV Hybrid Circuit Breaker for a dc Grid: The World's Largest Capacity High-Voltage dc Circuit Breaker. IEEE Industrial Electronics Magazine, 2020, 14, 15-27.	2.3	77
2899	Optimal tracking control for asymmetrical fault ride through in the backâ€toâ€back converters. IET Renewable Power Generation, 2020, 14, 1359-1367.	1.7	2
2900	Doubly Fed Induction Generator Open Stator Synchronized Control during Unbalanced Grid Voltage Condition. Energies, 2020, 13, 3155.	1.6	10
2901	A Systematic Approach via IIR Filters for Enhancing the Robustness of LCL-Type Shunt Active Power Filters to Grid Impedance. IEEE Transactions on Industry Applications, 2020, 56, 5095-5107.	3.3	9
2902	Simultaneous Time-Delay and Data-Loss Compensation for Networked Control Systems With Energy-Efficient Network Interfaces. IEEE Access, 2020, 8, 110082-110092.	2.6	6
2903	Passivity-Based Analysis and Design of Linear Voltage Controllers For Voltage-Source Converters. IEEE Open Journal of the Industrial Electronics Society, 2020, 1, 114-126.	4.8	47
2904	Active power coefficient control for grid-tied photovoltaic system under voltage distortions. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-24.	1.2	1
2905	Study of Controlling Methods of Inverters used in the Grid in conjunction with renewable energy sources. , 2020, , .		2
2906	Realâ€time energy storage management system of a nanogrid integrating photovoltaics and V2G operation. Journal of Engineering, 2020, 2020, 32-40.	0.6	4
2907	Modeling and Adaptive Design of the SRF-PLL: Nonlinear Time-Varying Framework. IEEE Access, 2020, 8, 28635-28645.	2.6	17
2908	Flexible Control Structure for Enhancement of Scalability in DC Microgrids. IEEE Systems Journal, 2020, 14, 4591-4601.	2.9	6
2909	A complex filter-based adaptive integral grid synchronisation algorithm for a PV system. International Journal of Sustainable Engineering, 2020, 13, 298-315.	1.9	2

#	Article	IF	Citations
2910	Optimal Voltage Regulator for Inverter Interfaced Distributed Generation Units Part II: Application. IEEE Transactions on Sustainable Energy, 2020, 11, 2825-2835.	5.9	19
2911	A Stable Adaptive Gradient Descent Harmonic-Disturbance Rejection for Improving Phase-Tracking Accuracy. IEEE Access, 2020, 8, 31409-31419.	2.6	1
2912	Dynamic Control of a DFIG Wind Power Generation System to Mitigate Unbalanced Grid Voltage. IEEE Access, 2020, 8, 39091-39103.	2.6	29
2913	Performance Tuning for Power Electronic Interfaces Under VSG Control. Applied Sciences (Switzerland), 2020, 10, 953.	1.3	7
2914	High Performance Single-Phase Single-Stage Grid-Tied PV Current Source Inverter Using Cascaded Harmonic Compensators. Energies, 2020, 13, 380.	1.6	14
2915	Performance comparison of series and parallel damped LCL filters using 5-level voltage source converter. SN Applied Sciences, 2020, 2, 1.	1.5	1
2916	Observer-based second-order sliding mode control for grid-connected VSI with LCL-type filter under weak grid. Electric Power Systems Research, 2020, 183, 106270.	2.1	20
2917	Distributed Fault-Tolerant Voltage/Frequency Synchronization in Autonomous AC Microgrids. IEEE Transactions on Power Systems, 2020, 35, 3774-3789.	4.6	51
2918	A Mode-Adaptive Power-Angle Control Method for Transient Stability Enhancement of Virtual Synchronous Generators. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 1034-1049.	3.7	96
2919	DC-link loop bandwidth selection strategy for grid-connected inverters considering power quality requirements. International Journal of Electrical Power and Energy Systems, 2020, 119, 105879.	3.3	16
2920	Design Procedure Combining Linear Matrix Inequalities and Genetic Algorithm for Robust Control of Grid-Connected Converters. IEEE Transactions on Industry Applications, 2020, 56, 1896-1906.	3.3	25
2921	Frequency-Division Virtual Impedance Shaping Control Method for Grid-Connected Inverters in a Weak and Distorted Grid. IEEE Transactions on Power Electronics, 2020, 35, 8116-8129.	5.4	33
2922	Comparative Study of Discrete PI and PR Controls for Single-Phase UPS Inverter. IEEE Access, 2020, 8, 45584-45595.	2.6	72
2923	Multi resonant Component-Based Grid-Voltage-Weighted Feedforward Scheme for Grid-Connected Inverter to Suppress the Injected Grid Current Harmonics Under Weak Grid. IEEE Transactions on Power Electronics, 2020, 35, 9784-9793.	5.4	60
2924	A Novel DROGI-Based Detection Scheme for Power Quality Improvement Using Four-Leg Converter Under Unbalanced Loads. IEEE Transactions on Industry Applications, 2020, 56, 815-825.	3.3	39
2925	Performance enhancement of grid-interfaced inverter using intelligent controller. Measurement and Control, 2020, 53, 551-563.	0.9	5
2926	Swing equation in power systems: Approximate analytical solution and bifurcation curve estimate. Chaos, 2020, 30, 013110.	1.0	17
2927	Robust Current Control of Grid-Tied Inverters Affected by LCL Filter Soft-Saturation. IEEE Transactions on Industrial Electronics, 2020, 67, 6550-6561.	5.2	29

#	Article	IF	Citations
2928	Gain normalized adaptive observer for three-phase system. International Journal of Electrical Power and Energy Systems, 2020, 118, 105821.	3.3	16
2929	Transient Current Correlation Based Protection for DC Distribution System. IEEE Transactions on Industrial Electronics, 2020, 67, 9927-9936.	5.2	25
2930	Optimized Design for AC Filter and Switching Frequency of Parallel-Connected Inverters With Global Synchronous Pulsewidth Modulation. IEEE Transactions on Power Electronics, 2020, 35, 11843-11854.	5.4	5
2931	Applications of Triple Active Bridge Converter for Future Grid and Integrated Energy Systems. Energies, 2020, 13, 1577.	1.6	17
2932	Design of PWM-SMC Controller Using Linearized Model for Grid-Connected Inverter With LCL Filter. IEEE Transactions on Power Electronics, 2020, 35, 12773-12786.	5.4	39
2933	Research on Novel Control Strategy for Grid-Connected Inverter Suitable for Wide-Range Grid Impedance Variation. Electronics (Switzerland), 2020, 9, 623.	1.8	3
2934	Reactive Power Injection to Mitigate Frequency Transients Using Grid Connected PV Systems. Energies, 2020, 13, 1998.	1.6	4
2935	Modeling and mechanism analysis of inertia and damping issues for wind turbines PMSG grid-connected system. Soft Computing, 2020, 24, 15681-15691.	2.1	2
2936	Mitigating Disturbance in Harmonic Voltage Using Grid-side Current Feedback for Grid-connected LCL-filtered Inverter. Journal of Electrical Engineering and Technology, 2020, 15, 1155-1165.	1.2	2
2937	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
2938	Robust exponential synchronization of a Markovian jump complex dynamical network with piecewise homogeneous Markovian parameters. IMA Journal of Mathematical Control and Information, 2020, 37, 1168-1191.	1.1	1
2939	Design and Implementation of a Low-Cost Real-Time Control Platform for Power Electronics Applications. Energies, 2020, 13, 1527.	1.6	17
2940	Value Gradient Learning Approach in Power and Frequency Regulation of Grid-Connected Synchronverters. , 2020, , .		1
2941	A novel anti-islanding method using positive feedback reactive power variation. Journal of Power Electronics, 2020, 20, 991-1001.	0.9	1
2942	Bibliometric analysis on the research of offshore wind power based on web of science. Economic Research-Ekonomska Istrazivanja, 2020, 33, 887-903.	2.6	11
2943	Current control based on limit cycle stability for photovoltaic arrays. IET Renewable Power Generation, 2020, 14, 725-733.	1.7	3
2944	Joint energy and reserve scheduling of renewable powered microgrids accommodating price responsive demand by scenario: A risk-based augmented epsilon-constraint approach. Journal of Cleaner Production, 2020, 262, 121365.	4.6	32
2945	Islanding Classification Mechanism for Grid-Connected Photovoltaic Systems. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 1966-1975.	3.7	28

#	Article	IF	Citations
2946	Power and Frequency Regulation of Synchronverters Using a Model Free Neural Network-Based Predictive Controller. IEEE Transactions on Industrial Electronics, 2021, 68, 3662-3671.	5.2	29
2947	Control of power in the grid integrated solar photovoltaic system using linear quadratic regulator. Materials Today: Proceedings, 2021, 45, 981-985.	0.9	2
2948	Modified Instantaneous Power Control With Phase Compensation and Current-Limited Function Under Unbalanced Grid Faults. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 2896-2906.	3.7	16
2949	Operation and Control of a Grid-Connected Asymmetrical Cascaded Multilevel Inverter. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 1614-1623.	3.7	24
2950	Sequence Impedance Modeling and Stability Assessment for Load Converters in Weak Grids. IEEE Transactions on Industrial Electronics, 2021, 68, 4056-4067.	5.2	11
2951	Improved DC-Link Voltage Regulation Strategy for Grid-Connected Converters. IEEE Transactions on Industrial Electronics, 2021, 68, 4977-4987.	5.2	55
2952	Centralized Synchronous Controller Based on Load Angle Regulation for Photovoltaic Power Plants. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 485-496.	3.7	9
2953	Review of Harmonic Mitigation Methods in Microgrid: From a Hierarchical Control Perspective. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 3044-3060.	3.7	36
2954	Harmonic Current and Inrush Fault Current Coordinated Suppression Method for VSG Under Non-ideal Grid Condition. IEEE Transactions on Power Electronics, 2021, 36, 1030-1042.	5.4	25
2955	Distributed Adaptive Event-Triggered Fault-Tolerant Synchronization for Multiagent Systems. IEEE Transactions on Industrial Electronics, 2021, 68, 1537-1547.	5.2	108
2956	Frequency Adaptive Multistage Harmonic Oscillator for Renewable-Based Microgrid Under Nonideal Grid Conditions. IEEE Transactions on Industrial Electronics, 2021, 68, 358-369.	5.2	12
2957	Online Centralized Coordination of Charging and Phase Switching of PEVs in Unbalanced LV Networks With High PV Penetrations. IEEE Systems Journal, 2021, 15, 1015-1025.	2.9	11
2958	Control schemes for micro-grid applicationâ€"A simulation and experimental approach for Electrical Engineering Project. International Journal of Electrical Engineering and Education, 2021, 58, 357-372.	0.4	0
2959	An Estimation-Based Solution to Weak-Grid-Induced Small-Signal Stability Problems of Power Converters. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 4558-4572.	3.7	15
2960	Soft-Switched Ultrahigh Gain DCâ€"DC Converter With Voltage Multiplier Cell for DC Microgrid. IEEE Transactions on Industrial Electronics, 2021, 68, 11063-11075.	5.2	21
2961	Grid Impedance Estimation Through Grid-Forming Power Converters. IEEE Transactions on Power Electronics, 2021, 36, 2094-2104.	5.4	55
2962	AC Grid Emulations for Advanced Testing of Grid-Connected Convertersâ€"An Overview. IEEE Transactions on Power Electronics, 2021, 36, 1626-1645.	5.4	45
2963	Transient Stability Enhancement Control Strategy Based on Improved PLL for Grid Connected VSC during Severe Grid Fault. IEEE Transactions on Energy Conversion, 2021, 36, 218-229.	3.7	40

#	Article	IF	Citations
2964	Reduced-Order Controllers Using Integrated Controller-Plant Dynamics Approach for Grid-Connected Inverters. IEEE Transactions on Industrial Electronics, 2021, 68, 7444-7453.	5.2	8
2965	Two-stage stochastic scheduling approach for AC/DC hybrid distribution system with renewable energy integration. Electrical Engineering, 2021, 103, 43-55.	1.2	3
2966	Hybrid Active Damping Combining Capacitor Current Feedback and Point of Common Coupling Voltage Feedforward for LCL-Type Grid-Connected Inverter. IEEE Transactions on Power Electronics, 2021, 36, 2373-2383.	5.4	50
2967	Novel Overlap Method to Eliminate Vector Deviation Error in SVM of Current Source Inverters. IEEE Transactions on Power Electronics, 2021, 36, 2320-2333.	5.4	8
2968	A Robust Grid-Voltage Feedforward Scheme to Improve Adaptability of Grid-Connected Inverter to Weak Grid Condition. IEEE Transactions on Power Electronics, 2021, 36, 2384-2395.	5.4	44
2969	Model predictive control of microgrids â€“ An overview. Renewable and Sustainable Energy Reviews, 2021, 136, 110422.	8.2	182
2970	<scp>AC</scp>,<scp>DC,</scp>and hybrid control strategies for smart microgrid application: A review. International Transactions on Electrical Energy Systems, 2021, 31, e12683.	1.2	50
2971	Power Coupling Mechanism Analysis and Improved Decoupling Control for Virtual Synchronous Generator. IEEE Transactions on Power Electronics, 2021, 36, 3028-3041.	5.4	53
2972	Frequency definition and estimation in modern power systems. , 2021, , 125-147.		1
2973	Neural network-based integral sliding mode backstepping control for virtual synchronous generators. Energy Reports, 2021, 7, 1-9.	2.5	12
2974	Dual loop control for single phase PWM inverter for distributed generation. Materials Today: Proceedings, 2021, 45, 2216-2219.	0.9	8
2975	Design and Control of Medium-Voltage Multilevel Converter for Direct Grid Integration of Photovoltaic System. Journal of the Institution of Engineers (India): Series B, 2021, 102, 203-212.	1.3	4
2976	Control of multi-functional grid-connected PV systems with load compensation under distorted and unbalanced grid voltages. Electric Power Systems Research, 2021, 192, 106918.	2.1	22
2977	Fractional order harmonic disturbance observer control for three-phase<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e1054" altimg="si39.svg"><mml:mrow><mml:mi>L</mml:mi><mml:mi>C</mml:mi><mml:mi>L</mml:mi></mml:mrow></mml:math>-type inverter. Control Engineering Practice, 2021, 107, 104697.	3.2	17
2978	Adaptive critic design-based reinforcement learning approach in controlling virtual inertia-based grid-connected inverters. International Journal of Electrical Power and Energy Systems, 2021, 127, 106657.	3.3	13
2979	Harmonic reduction of threeâ€phase power inverter injection current using virtual admittance. International Transactions on Electrical Energy Systems, 2021, 31, e12739.	1.2	3
2980	Collaborative Voltage Unbalance Elimination in Grid-Connected AC Microgrids With Grid-Feeding Inverters. IEEE Transactions on Power Electronics, 2021, 36, 7189-7201.	5.4	12
2981	Placing Grid-Forming Converters to Enhance Small Signal Stability of PLL-Integrated Power Systems. IEEE Transactions on Power Systems, 2021, 36, 3563-3573.	4.6	60

#	Article	IF	Citations
2982	Decentralized Carrier Phase Shifting for Optimal Harmonic Minimization in Asymmetric Parallel-Connected Inverters. IEEE Transactions on Power Electronics, 2021, 36, 5915-5925.	5.4	9
2983	The Control Strategy for the Grid-Connected Inverter Through Impedance Reshaping in q-Axis and its Stability Analysis Under a Weak Grid. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 3229-3242.	3.7	42
2984	Grid-Feeding Inverter With Simplified Virtual Synchronous Compensator Providing Grid Services and Grid Support. IEEE Transactions on Industry Applications, 2021, 57, 559-569.	3.3	28
2985	Frequency Adaptive Proportional-Repetitive Control for Grid-Connected Inverters. IEEE Transactions on Industrial Electronics, 2021, 68, 7965-7974.	5.2	34
2986	Distributed controller design and performance optimization for discreteâ€time linear systems. Optimal Control Applications and Methods, 2021, 42, 126-143.	1.3	4
2987	Realizable Reference Antiwindup Implementation for Parallel Controller Structures. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 5055-5068.	3.7	3
2988	Improved Direct Current Control for Grid-Connected Multilevel Inverters. IEEE Transactions on Industrial Electronics, 2021, 68, 8289-8297.	5.2	5
2989	Capacitor Voltage Full Feedback Scheme for LCL-Type Grid-Connected Inverter to Suppress Current Distortion Due to Grid Voltage Harmonics. IEEE Transactions on Power Electronics, 2021, 36, 2996-3006.	5.4	38
2990	Impedance Analysis of Voltage Source Converter Using Direct Power Control. IEEE Transactions on Energy Conversion, 2021, 36, 831-840.	3.7	19
2991	Impedance Circuit Model of Grid-Forming Inverter: Visualizing Control Algorithms as Circuit Elements. IEEE Transactions on Power Electronics, 2021, 36, 3377-3395.	5.4	60
2992	Sensorless Virtual Flux Combined Control of Grid Connected Converters With High Power Quality Under Unbalanced Grid Operation. IEEE Transactions on Sustainable Energy, 2021, 12, 785-793.	5.9	11
2993	An Enhanced Model-Free Predictive Control to Eliminate Stagnant Current Variation Update for PWM Rectifiers. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 6804-6816.	3.7	13
2994	An Introduction to Microgrids, Concepts, Definition, and Classifications. Power Systems, 2021, , 3-16.	0.3	4
2995	A Novel Per Unit (P.U.) Integer Format Applied to the Control of a Grid-Tied Solar PV Inverter. IEEE Transactions on Industrial Informatics, 2022, 18, 735-743.	7.2	6
2996	Cost-effective synchronization strategy for distributed generators in islanded microgrids. Journal of Power Electronics, 2021, 21, 583-589.	0.9	2
2997	An Improved Three-Stages Cascading Passivity-Based Control of Grid-Connected LCL Converter in Unbalanced Weak Grid Condition. IEEE Access, 2021, 9, 89497-89506.	2.6	15
2998	Power Balancing in Cascaded H-Bridge and Modular Multilevel Converters Under Unbalanced Operation: A Review. IEEE Access, 2021, 9, 110525-110543.	2.6	25
2999	Enhanced Fault Ride-Through of Power Converters Using Hybrid Grid Synchronization. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 2829-2841.	3.7	8

#	Article	IF	Citations
3000	Phase-Locked Loop Independent Second-Order Generalized Integrator for Single-Phase Grid Synchronization. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-9.	2.4	18
3001	Recursive SISO Impedance Modeling of Single-Phase Voltage Source Rectifiers. IEEE Transactions on Power Electronics, 2021, , 1-1.	5.4	13
3002	Improving Small-Signal Stability of Grid-Connected Inverter Under Weak Grid by Decoupling Phase-Lock Loop and Grid Impedance. IEEE Transactions on Industrial Electronics, 2022, 69, 7040-7053.	5.2	36
3003	Soft-Switching Bidirectional Switched-Capacitor DCâ€“DC Converter With Multiple Phase Shift Control Methods. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 1537-1547.	3.7	3
3004	Inequality Constraints Based Method for Fast Estimation of Droop Slope Stability Regions for MMC-Based MTDC Systems. IEEE Transactions on Power Delivery, 2021, 36, 3689-3700.	2.9	8
3005	Aliasing Suppression of Multisampled Current-Controlled LCL-Filtered Inverters. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 2411-2423.	3.7	30
3006	Transient Overvoltages Simulation Due to the Integration Process of Large Wind and Photovoltaic Farms With Utility Grids. IEEE Access, 2021, 9, 43262-43270.	2.6	6
3007	Multilevel converters for renewable energy systems. , 2021, , 155-184.		9
3008	Grid-following and grid-forming PV and wind turbines. , 2021, , 499-521.		1
3009	Cyber security in power electronic systems. , 2021, , 199-220.		1
3010	Robust Model Predictive Voltage Control of Three-phase Inverter with Output LC Filter. , 2021, , .		0
3011	Grid-Voltage-Feedback Active Damping With Lead Compensation for LCL-Type Inverter Connected to Weak Grid. IEEE Access, 2021, 9, 106813-106823.	2.6	10
3012	Effects of Virtual Resistance on Transient Stability of Virtual Synchronous Generators Under Grid Voltage Sag. IEEE Transactions on Industrial Electronics, 2022, 69, 4754-4764.	5.2	40
3013	Robust predictive current control of PWM rectifier under unbalanced and distorted network. IET Power Electronics, 2021, 14, 797-806.	1.5	13
3014	Power management in hybrid microgrids. , 2021, , 313-330.		0
3015	Microgrid control strategies. , 2021, , 7-58.		3
3016	Stabilized Negative Resistance Emulating Control for Grid-Connected Inverter. IEEE Transactions on Industrial Electronics, 2022, 69, 8599-8603.	5.2	3
3017	Damping of Subsynchronous Control Interactions in Large-Scale PV Installations Through Faster-Than-Real-Time Dynamic Emulation. IEEE Access, 2021, 9, 128481-128493.	2.6	1

#	Article	IF	Citations
3018	Smart Power Microgrid Impact on Sustainable Building. Impact of Meat Consumption on Health and Environmental Sustainability, 2021, , 169-194.	0.4	1
3019	Active Damping Adaptive Controller for Grid-Connected Inverter Under Weak Grid. IEEE Access, 2021, 9, 132442-132454.	2.6	5
3020	Pulse width modulation and control methods for multilevel inverters. , 2021, , 1-33.		2
3021	Advanced power control of photovoltaic systems. , 2021, , 447-469.		1
3022	Notch correction strategy of LCL-type grid-connected inverters based on GCFAD. Journal of Physics: Conference Series, 2021, 1732, 012175.	0.3	0
3023	Power quality problems with renewable energy integration. , 2021, , 105-131.		3
3024	Power quality improvement with D-STATCOM using combined PR and Comb filter- Controller. , 2021, , .		3
3026	Provision of Synthetic Inertia Support for Converter-Dominated Weak Grids. IEEE Systems Journal, 2022, 16, 2068-2077.	2.9	9
3028	Control Hardware-in-the-Loop Simulation on Fast Frequency Response of Battery Energy Storage System Equipped With Advanced Frequency Detection Algorithm. IEEE Transactions on Industry Applications, 2021, 57, 5541-5551.	3.3	6
3029	Symmetrical Pole Placement Method-Based Unity Proportional Gain Resonant and Gain Scheduled Proportional (PR-P) Controller With Harmonic Compensator for Single Phase Grid-Connected PV Inverters. IEEE Access, 2021, 9, 93165-93181.	2.6	11
3030	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
3031	Integral Control of Megawatt Power Electronic Systems as Generalized Hybrid Systems. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 4254-4274.	3.7	1
3032	Cooperative Control Strategy of Multiple VSGs in Microgrid Based on Adjacent Information. IEEE Access, 2021, 9, 125603-125615.	2.6	3
3033	A Harmonic Compensation Method Using a Lock-In Amplifier under Non-Sinusoidal Grid Conditions for Single Phase Grid Connected Inverters. Energies, 2021, 14, 597.	1.6	7
3034	Overview of stability analysis methods in power electronics. , 2021, , 169-197.		0
3035	Phase-locked loops and their design. , 2021, , 269-301.		3
3036	Stability and robustness improvement of power converters. , 2021, , 303-337.		0
3037	Low voltage ride-through operation of single-phase PV systems. , 2021, , 471-498.		1

#	Article	IF	Citations
3038	Performance assessment of distinct configurations for squirrel cage induction generator based wind energy conversion systems. AIP Conference Proceedings, 2021, , .	0.3	3
3040	Proportional-Resonant and Unipolar Switching Control of Single-Stage Solar Photovoltaic Grid Interfaced System. IETE Journal of Research, 2023, 69, 1317-1327.	1.8	2
3041	Multilevel inverter topologies for solar PV. , 2021, , 41-109.		1
3042	Investigation of Variable Switching Frequency in Finite Control Set Model Predictive Control on Grid-Connected Inverters. IEEE Open Journal of Industry Applications, 2021, 2, 178-193.	4.8	4
3043	An Enhanced Finite-Control-Set Model Predictive Control Strategy for PWM Rectifiers with Filter Inductance Mismatch. Lecture Notes in Computer Science, 2021, , 161-171.	1.0	0
3044	Short-Circuit Analysis of AC Distribution Systems Dominated by Voltage Source Converters Considering Converter Limitations. IEEE Transactions on Smart Grid, 2022, 13, 3867-3878.	6.2	10
3045	Voltage-Source Converter Harmonic Characteristic Modeling Using Hammersteinâ€“Wiener Approach. Canadian Journal of Electrical and Computer Engineering, 2021, 44, 402-410.	1.5	3
3046	Review of Power System Support Functions for Inverter-Based Distributed Energy Resources-Standards, Control Algorithms, and Trends. IEEE Open Journal of Power Electronics, 2021, 2, 88-105.	4.0	61
3047	Unified Modeling and Analysis of Dynamic Power Coupling for Grid-forming Converters. IEEE Transactions on Power Electronics, 2021, , 1-1.	5.4	22
3048	Evaluating Small-Signal Synchronization Stability of Grid-Forming Converter: A Geometrical Approach. IEEE Transactions on Industrial Electronics, 2022, 69, 9087-9098.	5.2	9
3049	Overview of SOGI-Based Single-Phase Phase-Locked Loops for Grid Synchronization Under Complex Grid Conditions. IEEE Access, 2021, 9, 39275-39291.	2.6	72
3050	Adaptive Tuning of PV Generator Control to Improve Stability Constrained Power Transfer Capability Limit. IEEE Transactions on Power Systems, 2022, 37, 1770-1781.	4.6	3
3051	Synchronized Operation of Grid Power, Solar Power, and Battery for Smart Energy Management. , 2021, , 694-730.		0
3052	An Enhanced Discrete-Time Oscillator-Based PLL-Less Estimation of Single-Phase Grid Voltage Parameters. IEEE Transactions on Industrial Electronics, 2022, 69, 3977-3987.	5.2	7
3053	Three-Phase PLL Based on Adaptive Clarke Transform Under Unbalanced Condition. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2022, 3, 382-387.	3.0	6
3054	An Error Demodulation Technique for Single-Phase Grid Synchronization/LVRT Applications. IEEE Systems Journal, 2022, 16, 2261-2264.	2.9	5
3055	Centralized Thermal Stress Oriented Dispatch Strategy for Paralleled Grid-Connected Inverters Considering Mission Profiles. IEEE Open Journal of Power Electronics, 2021, 2, 368-382.	4.0	4
3056	Modeling and control of DC/AC converters for photovoltaic grid-tie micro-inverter application. Materials Today: Proceedings, 2021, 39, 2027-2036.	0.9	6

#	Article	IF	Citations
3057	A comprehensive review on control techniques for stability improvement in microgrids. International Transactions on Electrical Energy Systems, 2021, 31, e12822.	1.2	25
3058	Modified natural frame control of singleâ€phase cascaded Hâ€bridge multilevel converter under distorted grid voltage. IET Power Electronics, 2021, 14, 1008-1017.	1.5	2
3059	High Performance MPPT Approach for Off-Line PV System Equipped With Storage Batteries and Electrolyzer. International Journal of Renewable Energy Development, 2021, 10, 507-515.	1.2	0
3060	Attenuation of DC-Link Pulsation of a Four-Wire Inverter during Phase Unbalanced Current Operation. Applied Sciences (Switzerland), 2021, 11, 1322.	1.3	1
3061	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
3062	NDM-based H-infinity robust control of parallel-connected grid-connected converters for V2G. IOP Conference Series: Earth and Environmental Science, 2021, 675, 012095.	0.2	0
3063	Beyond the State of the Art of Electric Vehicles: A Fact-Based Paper of the Current and Prospective Electric Vehicle Technologies. World Electric Vehicle Journal, 2021, 12, 20.	1.6	52
3064	Model predictive controlâ€"Based distributed control algorithm for bidirectional interlinking converter in hybrid microgrids. International Transactions on Electrical Energy Systems, 2021, 31, e12817.	1.2	9
3065	Tuning and experimental assessment of second-order generalized integrator â€"frequency locked loop grid synchronization for single-phase grid assisted system. IOP Conference Series: Materials Science and Engineering, 2021, 1045, 012019.	0.3	0
3066	DC-link sensorless control strategy for grid-connected PV systems. Electrical Engineering, 2021, 103, 2345-2355.	1.2	6
3067	A phase-locked loop using ESO-based loop filter for grid-connected converter: performance analysis. Control Theory and Technology, 2021, 19, 49-63.	1.0	5
3068	Analysis of an interleaved control scheme employed in split source inverter based gridâ€tied photovoltaic systems. IET Renewable Power Generation, 2021, 15, 1301-1314.	1.7	8
3069	Analysis and Design of Passive Filters for Power Quality Improvement in 3Ï• Grid-Tied PV Systems. , 2021, , .		1
3070	Seamless Operation of Master-Slave Organized AC Microgrid with Robust Control and Islanding Detection. , 2021, , .		3
3071	Robust Switching Gain-Based Fractional-Order Sliding Mode Control for Wind-Powered Microgrids. Complexity, 2021, 2021, 1-12.	0.9	2
3072	A technical study toward the implementation of an experimental microgrid in Universidad del BÃo-BÃo. , 2021, , .		0
3073	Adaptive energy consumption scheduling of multi-microgrid using whale optimization algorithm. International Journal of Modeling, Simulation, and Scientific Computing, 2021, 12, 2150036.	0.9	5
3074	Isochronous Architecture-Based Voltage-Active Power Droop for Multi-Inverter Systems. IEEE Transactions on Smart Grid, 2021, 12, 1088-1103.	6.2	1

#	Article	IF	Citations
3075	Enhancing Transient Stability of PLL-Synchronized Converters by Introducing Voltage Normalization Control. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2021, 11, 69-78.	2.7	13
3076	Improved Stability and Damping Characteristics of LCL-Filter Based Distributed Generation System. Journal of Electrical Engineering and Technology, 2021, 16, 1619-1635.	1.2	1
3077	Multiple PV Arrays-Battery Based Microgrid Control Integrated to 3-Phase Distribution Network. , 2021, , .		1
3078	Voltage and frequency control of standalone wind-driven self-excited reluctance generator using switching capacitors. Journal of Electrical Systems and Information Technology, 2021, 8, .	1.2	0
3079	An Improved Active Damping Method Based on Single-Loop Inverter Current Control for LCL Resonance in Grid-Connected Inverters. Mathematical Problems in Engineering, 2021, 2021, 1-11.	0.6	3
3080	A novel current controller in photovoltaic grid-connected inverter. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers,Series A/Chung-kuo Kung Ch'eng Hsuch K'an, 2021, 44, 277-292.	0.6	1
3081	Pulse control of frequency and width for a real-time independently adjustable laser source. Frontiers of Information Technology and Electronic Engineering, 2021, 22, 1379.	1.5	0
3082	Detecting components in a distorted grid voltage. , 2021, , .		0
3083	A Voltage Control Strategy of VSG Based on Self-Adaptive Inertia Coefficient and Droop Coefficient. Mathematical Problems in Engineering, 2021, 2021, 1-12.	0.6	3
3084	Improved PR Control Strategy for an LCL Three-Phase Grid-Connected Inverter Based on Active Damping. Applied Sciences (Switzerland), 2021, 11, 3170.	1.3	7
3085	New feed-forward control strategy of single-phase grid-connected inverter. Journal of Physics: Conference Series, 2021, 1871, 012029.	0.3	0
3086	Control of Two Stage Grid Connected Multi-functional Inverter for Solar Photo Voltaic System. , 2021, , .		2
3087	Synchronization Stability of PLL-Based Power Converters Connected to Weak AC Grid. , 2021, , .		3
3088	A Modified LADRC-Based DC-Link Voltage Controller for Photovoltaic Grid-Connected Inverters. Electronics (Switzerland), 2021, 10, 877.	1.8	4
3089	Hybrid flexible arc suppression device based on soft grid connection strategy for MV distribution systems. IET Generation, Transmission and Distribution, 2021, 15, 2499-2512.	1.4	5
3090	MOSFET-based Three-Phase Inverter using Arduino - Applicable in Microgrid Systems. , 2021, , .		0
3091	Parameter Estimation for Phase and Frequency Synchronization of the Single Phase Full-Bridge Photovoltaic Grid-Connected Inverter Using New Chaotic Grey Wolf Algorithm. Journal of Electrical Engineering and Technology, 0, , 1.	1.2	0
3092	Seamless switching power sharing control method in a hybrid DCâ€AC microgrid by the isolated twoâ€stage converter based on SST. IET Power Electronics, 2021, 14, 1384-1396.	1.5	3

#	Article	IF	Citations
3093	Virtual Resistor Active Damping with Selective Harmonics Control of LCL-Filtered VSCs. , 2021, , .		5
3094	The Strategy of Active Grid Frequency Support for Virtual Synchronous Generator. Electronics (Switzerland), 2021, 10, 1131.	1.8	2
3095	Double-fractional OPIMR controller for a single-phase grid-tied inverter. , 2021, , .		4
3096	Offshore Wind Energy Integration using Photovoltaic Systems and Batteries as Smoothing Devices. EEA - Electrotehnica, Electronica, Automatica, 2021, 69, 13-20.	0.2	1
3097	Front-end Stage Design of a Two-stage Grid-tied PV Inverter. , 2021, , .		0
3098	An Improved Predictive Control for T-Type 3L Active-Front-Ends with LCL Filters: a Full State-Variable Feedback Solution. , 2021, , .		1
3099	An Accurate Resonant Frequency Design Method Considering Digital Control Delay in Grid-Connected Converters. , 2021, , .		2
3100	A Novel Three-Phase Transformerless Cascaded Multilevel Inverter Topology for Grid-Connected Solar PV Applications. IEEE Transactions on Industry Applications, 2021, 57, 2285-2297.	3.3	33
3101	Compound Power Synchronization Control for Voltage Source Converters. , 2021, , .		0
3102	Connection System for Small and Medium-Size Wind Generators through the Integration in an MMC and NLC Modulation. Energies, 2021, 14, 2681.	1.6	1
3103	Minimum DC-Link Voltage Control for Efficiency and Reliability Improvement in PV Inverters. IEEE Transactions on Power Electronics, 2021, 36, 5512-5520.	5.4	16
3104	Design of a Current Controller Based on a Two Step Procedure for Grid-Connected Converters. , 2021, , .		1
3105	Short-term Prediction of Electricity Consumption in Distribution Network during Peak Summer Period Based on ARIMA Model. , 2021, , .		1
3106	Small-Signal Impedance Modeling and Stability Analysis of BDFIG Tied into Weak Power Grid. , 2021, , .		2
3107	Circulating Current Suppression for Multi-Function Parallel Three-Level Four-leg Converters. , 2021, , .		0
3108	Super twisting sliding mode control of three-phase grid-tied neutral point clamped inverters. ISA Transactions, 2022, 125, 547-559.	3.1	11
3109	Effect of Low Pass Filter in Governor Model of Virtual Synchronous Generator. , 2021, , .		1
3110	Multistep Finite Control Set Model Predictive Control of Photovoltaic Power Generation System with Harmonic Compensation. Complexity, 2021, 2021, 1-11.	0.9	0

#	Article	IF	Citations
3111	Improved Virtual Inertia of PMSG-Based Wind Turbines Based on Multi-Objective Model-Predictive Control. Energies, 2021, 14, 3612.	1.6	8
3112	Model Predictive Control of a Three Phase Four Leg LC Filtered Inverter: Reduction of Manufacturing Cost and Simplification of Working Processes. , 2021, , .		0
3113	Characterizations of Resonant Converters Based DC Transformers for Microgrid Application. , 2021, , .		2
3114	Zero Sequence Voltage Control Enabling Transformerless Electric Vehicle Chargers. , 2021, , .		6
3115	Converter-Based Solution for Cancellation of Subsynchronous Oscillations in Local Power Grids. , 2021, , .		1
3116	Impact of the Wind Turbine on the Parameters of the Electricity Supply to an Agricultural Farm. Sustainability, 2021, 13, 7279.	1.6	5
3117	On robust synchronization of nonlinear systems with application to grid integration of renewable energy sources. Annual Reviews in Control, 2021, 52, 213-221.	4.4	2
3118	Full Digital Control and Multi-Loop Tuning of a Three-Level T-Type Rectifier for Electric Vehicle Ultra-Fast Battery Chargers. Electronics (Switzerland), 2021, 10, 1453.	1.8	14
3119	Grid-Tied PV-BES system based on modified bat algorithm-FLC MPPT technique under uniform conditions. Neural Computing and Applications, 2021, 33, 14929-14943.	3.2	1
3120	State-Space based Current-Sensorless Finite Control Set - Modulated Model Predictive Control for a 5L-Flying Capacitor Multilevel Converter. , 2021, , .		3
3121	An Enhanced Controller for Four Leg Inverter-fed Loads in an Aircraft Power System. , 2021, , .		4
3123	Modeling and Sizing of Hybrid Energy Storage System for Virtual Synchronous Generator. , 2021, , .		0
3124	An Unconstrained Voltage Support Scheme for Distributed Generation Connected to Resistive-Inductive Grid Under Unbalanced Conditions. IEEE Transactions on Industry Applications, 2021, 57, 4253-4262.	3.3	10
3125	Design of Controller for Virtual Synchronous Power Plant. IEEE Transactions on Industry Applications, 2021, 57, 4033-4041.	3.3	16
3126	A New Coupled-Inductor-Based Buck/Boost DC/DC Converter with Soft Switching for DC Microgrid Applications. , 2021, , .		1
3127	A Robust Vector Current Controller with Negative-Sequence Current Capability for Grid-Connected Inverters. Energies, 2021, 14, 4549.	1.6	2
3128	On the Marginal Stability/Instability of Power Island Following Unintentional Islanding: A Modal Analysis Based Approach. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 2468-2472.	2.2	1
3129	A modified shuffled frog algorithm to improve MPPT controller in PV System with storage batteries under variable atmospheric conditions. Control Engineering Practice, 2021, 112, 104831.	3.2	23

#	Article	IF	Citations
3130	Interactions Between Two Phase-Locked Loop Synchronized Grid Converters. IEEE Transactions on Industry Applications, 2021, 57, 3935-3947.	3.3	16
3131	Overviews on the applications of the Kuramoto model in modern power system analysis. International Journal of Electrical Power and Energy Systems, 2021, 129, 106804.	3.3	22
3132	A novel MPPT controller in PV systems with hybrid whale optimization-PS algorithm based ANFIS under different conditions. Control Engineering Practice, 2021, 112, 104809.	3.2	35
3133	Improved Droop Control Strategy of Multiple Energy Storage Applications in an AC Microgrid Based on the State of Charge. Electronics (Switzerland), 2021, 10, 1726.	1.8	1
3134	A Type-3 Modified SOGI-PLL With Grid Disturbance Rejection Capability for Single-Phase Grid-Tied Converters. IEEE Transactions on Industry Applications, 2021, 57, 4242-4252.	3.3	51
3135	Understanding the Effects of Exponentially Decaying DC Currents on the Dual dq Control of Power Converters in Systems with High X/R. , 2021, , .		1
3136	Protection of active distribution networks with conventional and inverter-based distributed generators. International Journal of Electrical Power and Energy Systems, 2021, 129, 106746.	3.3	14
3137	Artificial Intelligence-Based Control Design for Reliable Virtual Synchronous Generators. IEEE Transactions on Power Electronics, 2021, 36, 9453-9464.	5.4	34
3138	Current Trends and Challenges in Sustainable Generation, Transmission and Distribution of Electricity. Strategies for Sustainability, 2022, , 213-236.	0.2	2
3139	A cogeneration scheme with biogas and improvement of frequency stability using inertia based control in AC microgrid. International Journal of Emerging Electric Power Systems, 2021, .	0.6	1
3140	ContribuiÃ§Ã£o na RegulaÃ§Ã£o de TensÃ£o na Rede por Geradores DistribuÃdos Fotovoltaicos. , 2021, , .		0
3141	A Novel AC-DC Hybrid Metro Power Supply System. , 2021, , .		0
3142	Modeling and Stability Analysis of LCL-Filter-Based Voltage Source Inverters. , 2022, , 9-63.		0
3143	Current Control of LCL-Type Shunt APFs: Damping Characteristics, Stability Analysis, and Robust Design Against Grid Impedance Variation. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 5026-5042.	3.7	14
3144	An Improved Synchronization Stability Method of Virtual Synchronous Generators Based on Frequency Feedforward on Reactive Power Control Loop. IEEE Transactions on Power Electronics, 2021, 36, 9136-9148.	5.4	54
3145	Improved active power dynamic response of voltageâ€controlled doubly fed induction generator. IET Electric Power Applications, 2021, 15, 1588-1603.	1.1	2
3146	Digital filterâ€based grid synchronization for autonomous microgrids. IET Renewable Power Generation, 2021, 15, 3732-3742.	1.7	7
3147	Review of Grid Interconnection Requirements and Synchronization Controllers for Dispersed Minigrids. , 2021, , .		1

#	Article	IF	Citations
3148	Sub-Transient Response of the DSC Controlled Inverter under Fault. Energies, 2021, 14, 4952.	1.6	0
3149	Review of Operational Challenges and Solutions for DER Integration with Distribution Networks. , 2021, , .		3
3150	Stability Analysis of a Remote DC Subgrid/Microgrid Connected to a Very Weak AC Grid. , 2021, , .		0
3151	Flexible Control Strategy for Enhancing Power Injection Capability of Three-Phase Four-Wire Inverter During Asymmetrical Grid Faults. IEEE Transactions on Power Electronics, 2021, 36, 9592-9608.	5.4	11
3153	Three-Level Unidirectional Rectifiers under Non-Unity Power Factor Operation and Unbalanced Split DC-Link Loading: Analytical and Experimental Assessment. Energies, 2021, 14, 5280.	1.6	4
3154	Simplified damping analysis and suppression method for low-frequency oscillation introduced by virtual synchronous generator. Journal of Power Electronics, 2021, 21, 1600-1610.	0.9	1
3155	Unified treatment of synchronization patterns in generalized networks with higher-order, multilayer, and temporal interactions. Communications Physics, 2021, 4, .	2.0	33
3156	Reduced-order Active Disturbance Rejection Control of DC-Link Voltage of Photovoltaic Grid-connected Inverters. , 2021, , .		0
3157	The role of inertia for grid flexibility under high penetration of variable renewables - A review of challenges and solutions. Renewable and Sustainable Energy Reviews, 2021, 147, 111223.	8.2	79
3158	Operational strategies and electricity market structure of microgrid: A critical review. Renewable Energy Focus, 2021, 39, 163-171.	2.2	4
3159	A Novel Multilevel Solid-State Transformer for Hybrid Power Grids. , 2021, , .		2
3160	Adaptive synchronization of complex dynamic networks with switching parameters subject to state constraints in power system. Journal of the Franklin Institute, 2021, 358, 9243-9262.	1.9	9
3161	A Virtual Inertia and Damping Control to Suppress Voltage Oscillation in Islanded DC Microgrid. IEEE Transactions on Energy Conversion, 2021, 36, 1711-1721.	3.7	27
3162	Three-Phase Transformerless Inverter for Photovoltaic Grid Connected System with Zero Common Mode Noise. Renewable Energy and Power Quality Journal, 0, 19, 137-142.	0.2	0
3163	An Advanced Proportional Multiresonant Controller for Enhanced Harmonic Compensation With Power Ripple Mitigation of Grid-Integrated PV Systems Under Distorted Grid Voltage Conditions. IEEE Transactions on Industry Applications, 2021, 57, 5318-5331.	3.3	6
3164	Implementation of the Virtual Synchronous Machine in Grid-Connected and Stand-alone Mode. Engergy Systems in Electrical Engineering, 2022, , 335-353.	0.5	11
3165	Comparative Study of Different Values of Inertia for Islanded Systems with Energy Storage Systems. Journal of Control, Automation and Electrical Systems, 0, , 1.	1.2	1
3166	Compensation of distortions in VSC-based DCâ€“AC power systems using a modified vector control method. Control Engineering Practice, 2021, 114, 104864.	3.2	5

#	Article	IF	Citations
3167	Adaptive current harmonics suppression strategy for grid-tie inverters. ISA Transactions, 2022, 128, 698-710.	3.1	2
3168	A Minâ€“Max Closed-Loop PLL-GSPWM for Circulating Leakage Currents Attenuation in PV Station. IEEE Transactions on Power Electronics, 2021, 36, 10224-10238.	5.4	4
3169	Root Cause Analysis of AC Overcurrent in July 2020 San Fernando Disturbance. IEEE Transactions on Power Systems, 2021, 36, 4892-4895.	4.6	3
3170	Transient Synchronization Stability Control for LVRT With Power Angle Estimation. IEEE Transactions on Power Electronics, 2021, 36, 10981-10985.	5.4	13
3171	An Inductor Current Sensorless Control Strategy Based on Modified VSG Method for Single-Phase Microgrid Application With Seamless Transfer Capability. Frontiers in Energy Research, 2021, 9, .	1.2	1
3172	A Review on Direct Power Control of Pulsewidth Modulation Converters. IEEE Transactions on Power Electronics, 2021, 36, 11984-12007.	5.4	49
3173	Unified Distributed Control of Battery Storage With Various Primary Control in Power Systems. IEEE Transactions on Sustainable Energy, 2021, 12, 2332-2341.	5.9	10
3174	Implementation of a Photovoltaic Inverter with Modified Automatic Voltage Regulator Control Designed to Mitigate Momentary Voltage Dip. Energies, 2021, 14, 6244.	1.6	3
3175	Power Conversion Technologies for a Hybrid Energy Storage System in Diesel-Electric Locomotives. IEEE Transactions on Industrial Electronics, 2021, 68, 9081-9091.	5.2	13
3176	Coordinated Frequency Regulation Using Solar Forecasting Based Virtual Inertia Control for Islanded Microgrids. IEEE Transactions on Sustainable Energy, 2021, 12, 2393-2403.	5.9	13
3177	Modified repetitive control based on comb filters for harmonics control in grid-connected applications. Electric Power Systems Research, 2021, 200, 107412.	2.1	4
3178	Distributed fault detection and isolation for uncertain linear discrete time-varying heterogeneous multi-agent systems. Information Sciences, 2021, 579, 483-507.	4.0	12
3179	On the Equilibrium Points in Three-Phase PLL Based on the d-axis Voltage Normalization. IEEE Transactions on Power Electronics, 2021, 36, 12146-12150.	5.4	5
3180	Comprehensive survey on support policies and optimal market participation of renewable energy. Electric Power Systems Research, 2021, 201, 107522.	2.1	8
3181	Robustness Investigation of Multi-Inverter Paralleled Grid-Connected System With LCL-Filter Based on the Grid-Impedance Allocation Mechanism. IEEE Transactions on Power Electronics, 2021, 36, 14508-14524.	5.4	10
3182	PCC Voltage Perturbation Path Analysis and Compensation for Grid-Connected Voltage-Source Converter Under Weak Grid. IEEE Transactions on Industrial Electronics, 2021, 68, 12331-12339.	5.2	23
3183	Two-Stage Three-Phase Grid-Tied Photovoltaic System with MPPT Method. Afyon Kocatepe University International Journal of Engineering Technology and Applied Sciences, 0, , 65-73.	0.1	0
3184	Accurate and Fast Amplitude Estimation of Signal Distorted by Noise and Harmonics for Control of VSI. IEEE Transactions on Industrial Electronics, 2021, 68, 12584-12594.	5.2	6

#	Article	IF	Citations
3185	Simulation and power quality analysis of a Loose-Coupled bipolar DC microgrid in an office building. Applied Energy, 2021, 303, 117606.	5.1	18
3186	Online current limiting-based control to improve fault ride-through capability of grid-feeding inverters. Electric Power Systems Research, 2021, 201, 107524.	2.1	7
3187	Model Predictive Control of H7 Transformerless Inverter Powered by PV. Intelligent Automation and Soft Computing, 2022, 31, 449-469.	1.6	3
3188	Synchronized Operation of Grid Power, Solar Power, and Battery for Smart Energy Management. , 2022, , 1231-1267.		0
3189	Power Quality Improvement for Grid-Connected Photovoltaic Panels Using Direct Power Control. Advances in Environmental Engineering and Green Technologies Book Series, 2022, , 107-142.	0.3	8
3190	Nonlinear Stability Analysis of the Classical Nested PI Control of Voltage Sourced Inverters. , 2022, 6, 1442-1447.		3
3191	Modeling and stability analysis of grid-tied VSC considering the impact of voltage feed-forward. International Journal of Electrical Power and Energy Systems, 2022, 135, 107483.	3.3	6
3192	A Comparative Study of Pi and Adaptive Pi Controller for SHPF with Power Efficiency Features. International Journal for Research in Applied Science and Engineering Technology, 2021, 9, 213-220.	0.1	0
3193	An Improved Quasi-Resonant Controller for Grid-Connected Inverter with LCL Filter. Journal of Physics: Conference Series, 2021, 1735, 012006.	0.3	0
3194	An Enhanced Frequency-Adaptive Single-Phase Grid Synchronization Technique. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	2.4	12
3195	The d and q Axes Technique for Suppression Zero-Sequence Circulating Current in Directly Parallel Three-Phase PWM Converters. IEEE Access, 2021, 9, 52213-52224.	2.6	7
3196	A Robust Three-Phase Prefiltered Phase Locked-Loop for the Subcycle Estimation of Fundamental Parameters. IEEE Transactions on Industry Applications, 2021, 57, 6155-6166.	3.3	8
3197	A Compensation Method to Eliminate the Impact of Time Delay on Capacitor-Current Active Damping. IEEE Transactions on Industrial Electronics, 2022, 69, 7512-7516.	5.2	16
3198	State-Space Modeling and Control of Grid-Tied Power Converters With Capacitive/Battery Energy Storage and Grid-Supportive Services. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2023, 11, 234-250.	3.7	20
3199	Optimized Operation of the Full-Bridge Five-Branch Modular Multilevel Converter for Power Quality Enhancement of Cophase Railway Power System. IEEE Transactions on Transportation Electrification, 2022, 8, 590-604.	5.3	2
3200	Control of a Four-wire Hybrid Prosumer Converter for Balancing Utility Grids. Power Electronics and Drives, 2021, 6, 1-11.	0.6	3
3201	Robust design and passivity control methods. , 2021, , 35-76.		0
3202	Performance Analysis of Single-Stage PV Connected Three-Phase Grid System Under Steady State and Dynamic Conditions. Algorithms for Intelligent Systems, 2021, , 39-46.	0.5	4

#	Article	IF	Citations
3203	Model predictive control of power converters, motor drives, and microgrids. , 2021, , 101-124.		2
3204	A Lyapunov-Based Nonlinear Power Control Algorithm for Grid-Connected VSCs. IEEE Transactions on Industrial Electronics, 2022, 69, 2916-2926.	5.2	10
3205	Circuit Dynamics Analysis and Control of the Full-Bridge Five-Branch Modular Multilevel Converter for Comprehensive Power Quality Management of Cophase Railway Power System. IEEE Transactions on Industrial Electronics, 2022, 69, 3278-3291.	5.2	7
3206	Decision-Making for Complex Systems Subjected to Uncertaintiesâ€"A Probability Density Function Control Approach. Studies in Systems, Decision and Control, 2021, , 693-724.	0.8	1
3207	A comprehensive review on timeâ€delay compensation techniques for gridâ€connected inverters. IET Renewable Power Generation, 2021, 15, 251-266.	1.7	8
3208	Leakage Current Suppression With Capacitor Voltage Control of Three-Level Flying Capacitor Grid-Connected Inverters. IEEE Transactions on Industrial Electronics, 2022, 69, 2191-2201.	5.2	15
3211	Control Methods Applied in Renewable Energy Systems. Green Energy and Technology, 2014, , 205-246.	0.4	11
3212	Advanced Control of Photovoltaic and Wind Turbines Power Systems. Studies in Computational Intelligence, 2014, , 41-89.	0.7	11
3214	Multiple DG Synchronization and De-synchronization in a Microgrid Using PLC. Advances in Intelligent Systems and Computing, 2016, , 565-572.	0.5	6
3216	Coordinating Distributed Energy Resources During Microgrid Emergency Operation. Green Energy and Technology, 2014, , 259-303.	0.4	1
3217	Control of a flexible microgrid during both modes of operations with presence of nonlinear loads. Journal of the Franklin Institute, 2020, 357, 6498-6538.	1.9	10
3218	Grid-friendly power control for smart photovoltaic systems. Solar Energy, 2020, 210, 115-127.	2.9	32
3219	Robustness of Pecoraâ€"Carroll synchronization under communication constraints. Systems and Control Letters, 2018, 111, 27-33.	1.3	10
3221	Nonâ€linear integral higherâ€order sliding mode controller design for islanded operations of Tâ€type threeâ€phase inverterâ€interfaced distributed energy resources. IET Generation, Transmission and Distribution, 2020, 14, 53-61.	1.4	10
3222	Robust AD for LCLâ€type gridâ€connected inverter with capacitor current quasiâ€integral feedback. IET Power Electronics, 2020, 13, 1332-1342.	1.5	8
3223	Novel model predictive direct power control strategy for gridâ€connected threeâ€level inverters. IET Power Electronics, 2020, 13, 3727-3733.	1.5	8
3224	Requirements for control strategies of gridâ€connected converters in the future power system. IET Renewable Power Generation, 2020, 14, 1288-1295.	1.7	6
3225	Discrete time model based multiple paths full feedforward control for threeâ€phase inverter with output transformer. IET Power Electronics, 2021, 14, 454-467.	1.5	5

#	Article	IF	Citations
3226	A review on feedback current control techniques of grid-connected PV inverter system with LCL filter. , 2018, , .		11
3227	Integration of Distributed Generation to Microgrid with Virtual Inertia. , 2020, , .		12
3228	Fast Goertzel Algorithm and RLS-Adaptive Filter Based Reference Current Extraction for Grid-Connected System. , 2020, , .		1
3229	DC-Link Voltage Control Aided for the Inertial Support During Severe Faults in Weak Grids. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 7296-7305.	3.7	9
3230	Convergence and Interoperability for the Energy Internet: From Ubiquitous Connection to Distributed Automation. IEEE Industrial Electronics Magazine, 2020, 14, 91-105.	2.3	19
3231	Robust Seventh Order Complex Filter Controller for PV-BES System with Seamless Grid Synchronization. , 2020, , .		2
3232	Design of Optimal LLCL Filter with an Improved Control Strategy for Single Phase Grid Connected PV Inverter. International Journal of Power Electronics and Drive Systems, 2018, 9, 114.	0.5	8
3233	A New Approach to LCL Filter Design for Grid-Connected PV Sources. American Journal of Electrical Power and Energy Systems, 2017, 6, 57.	0.5	2
3234	METODE SINKRONISASI INVERTER SATU FASE DENGAN JARINGAN LISTRIK YANG TERDISTORSI. Telkomnika (Telecommunication Computing Electronics and Control), 2010, 8, 49.	0.6	1
3235	An Optimal Control Load Demand Sharing Strategy for Multi-Feeders in Islanded Microgrid. International Journal of Advanced Computer Science and Applications, 2018, 9, .	0.5	3
3236	Improvement of Grid-Connected Photovoltaic System Using Artificial Neural Network and Genetic Algorithm Under Different Condition. Burgmann Journal, 2014, 3, 15-32.	0.2	2
3237	Grid connected photovoltaic systems power quality improvement using Adaptive Control Strategy. International Journal of Bio-Inspired Computation, 2016, 1, 1.	0.6	1
3238	Analytical description of power losses in a transformer operating in the dual active bridge converter. Bulletin of the Polish Academy of Sciences: Technical Sciences, 2016, 64, 561-574.	0.8	4
3239	Stability Enhancement of DFIG Wind Turbines with New Space-Vector based Nonlinear Control. IEEJ Transactions on Power and Energy, 2014, 134, 826-833.	0.1	1
3240	Microrredes Basadas en ElectrÃ³nica de Potencia: parte II: Control de Potencia Activa y Reactiva. Ingenius: Revista De Ciencia Y TecnologÃa, 2014, , 24-34.	0.1	5
3241	Investigation of ANN-GA and Modified Perturb and Observe MPPT Techniques for Photovoltaic System in the Grid Connected Mode. Indian Journal of Science and Technology, 2015, 8, 87.	0.5	16
3243	Modeling and Analysis of a Micro-Grid System Powered by Renewable Energy Sources. The Open Renewable Energy Journal, 2013, 6, 7-22.	0.7	14
3244	Power Electronics for Grid Integration of Wind Power Generation System. Journal of Communications Technology Electronics and Computer Science, 0, 9, 10.	0.0	5

#	Article	IF	Citations
3245	Digital Multi-Loop Control of a 3-Level Rectifier for Electric Vehicle Ultra-Fast Battery Chargers. , 2020, , .		6
3246	Germany's new code for generation plants connected to medium-voltage networks and its repercussion on inverter control. Renewable Energy and Power Quality Journal, 2009, 1, 716-720.	0.2	9
3247	Power Quality in Grid connected Renewable Energy Systems: Role of Custom Power Devices. Renewable Energy and Power Quality Journal, 2010, 1, 878-881.	0.2	76
3248	Determination of Controllers Constraints for Frequency Stability in an Islanded Microgrid. Renewable Energy and Power Quality Journal, 0, , 822-825.	0.2	1
3249	Review of Synchronization Algorithms used in Grid-Connected Renewable Agents. Renewable Energy and Power Quality Journal, 0, , 240-245.	0.2	7
3250	Modeling of PMU-Based Automatic Re-synchronization Controls for DER Generators in Power Distribution Networks using Modelica and the OpenIPSL. , 2019, , .		3
3251	Digital Adaptive Hysteresis Current Control for Multi-Functional Inverters. Energies, 2018, 11, 2422.	1.6	15
3252	Analysis of Renewable Energy Power Systems. Advances in Computational Intelligence and Robotics Book Series, 2015, , 651-686.	0.4	15
3253	A SRF-PLL Control Scheme for DVR to Achieve Grid Synchronization and PQ Issues Mitigation in PV Fed Grid Connected System. Circuits and Systems, 2016, 07, 2996-3015.	0.1	7
3254	Control Method of the DFIG Connected to a DC Link through a Diode Bridge. Energy and Power Engineering, 2013, 05, 102-108.	0.5	8
3255	Virtual Synchronous Generator Based Current Synchronous Detection Scheme for a Virtual Inertia Emulation in SmartGrids. Energy and Power Engineering, 2019, 11, 99-131.	0.5	6
3256	Power System Harmonics Study for Unbalanced Microgrid System with PV Sources and Nonlinear Loads. Journal of Power and Energy Engineering, 2015, 03, 43-55.	0.3	12
3257	A Study of DTC-Power Electronic Cascade Fed by Photovoltaic Cell-Three-Level NPC Inverter. Smart Grid and Renewable Energy, 2010, 01, 109-118.	0.7	9
3258	Small Signal Modeling of Inverter-based Grid-Connected Microgrid to Determine the Zero-Pole Drift Control with Dynamic Power Sharing Controller. Engineering, Technology & Applied Science Research, 2019, 9, 3790-3795.	0.8	6
3259	Simulation and Implementation of Grid-connected Inverters. International Journal of Computer Applications, 2012, 60, 41-49.	0.2	41
3260	Fault Diagnosis and Fault-Tolerant Control of DC-link Voltage Sensor for Two-stage Three-Phase Grid-Connected PV Inverters. Journal of Electrical Engineering and Technology, 2013, 8, 752-759.	1.2	7
3261	Small-Signal Modeling of the PVR-Based AD Scheme and Controller Design for Three-Phase Standalone DG System. Journal of Electrical Engineering and Technology, 2016, 11, 1165-1178.	1.2	2
3262	Improved DC Offset Error Compensation Algorithm in Phase Locked Loop System. Journal of Electrical Engineering and Technology, 2016, 11, 1707-1713.	1.2	2

#	Article	IF	Citations
3263	Steady-State Assessment of the DG Impact on Voltage Control and Loss Allocation. , 0, , .		4
3264	Employing Interface Compensators to Enhance the Power Quality In Hybrid AC/DC Microgrids. CiÃªncia E Natura, 0, 37, 357.	0.0	6
3265	A Review of Power Electronics Based Microgrids. Journal of Power Electronics, 2012, 12, 181-192.	0.9	135
3266	Systematic Current Control Strategy with Pole Assignment for Grid-Connected LCL-Filtered Inverters. Journal of Power Electronics, 2013, 13, 447-457.	0.9	6
3267	A Canonical Small-Signal Linearized Model and a Performance Evaluation of the SRF-PLL in Three Phase Grid Inverter System. Journal of Power Electronics, 2014, 14, 1057-1068.	0.9	4
3268	A Novel Phase Locked Loop for Grid-Connected Converters under Non-Ideal Grid Conditions. Journal of Power Electronics, 2015, 15, 216-226.	0.9	14
3269	Effects of Input Harmonics, DC Offset and Step Changes of the Fundamental Component on Single-Phase EPLL and Elimination. Journal of Power Electronics, 2015, 15, 1085-1092.	0.9	2
3270	Evaluation and Comparison of the Low-Frequency Oscillation Damping Methods for the Droop-Controlled Inverters in Distributed Generation Systems. Journal of Power Electronics, 2016, 16, 731-747.	0.9	4
3271	An Inductance Voltage Vector Control Strategy and Stability Study Based on Proportional Resonant Regulators under the Stationary Î±Î² Frame for PWM Converters. Journal of Power Electronics, 2016, 16, 1110-1121.	0.9	1
3272	DC-Link Voltage Balance Control in Three-phase Four-wire Active Power Filters. Journal of Power Electronics, 2016, 16, 1928-1938.	0.9	3
3273	First-order Generalized Integrator Based Frequency Locked Loop and Synchronization for Three-Phase Grid-connected Converters under Adverse Grid Conditions. Journal of Power Electronics, 2016, 16, 1939-1949.	0.9	3
3274	Investigation on Intermittent Life Testing Program for IGBT. Journal of Power Electronics, 2017, 17, 811-820.	0.9	7
3275	Comparison and Selection of Grid-Tied Inverter Models for Accurate and Efficient EMT Simulations. IEEE Transactions on Power Electronics, 2022, 37, 3462-3472.	5.4	9
3276	Adaptive Power Factor Regulation Under Asymmetrical and Non-Sinusoidal Grid Condition With Distributed Energy Resource. IEEE Access, 2021, 9, 140487-140503.	2.6	4
3277	Unity Proportional Gain Resonant and Gain Scheduled Proportional (PR-P) Controller-Based Variable Perturbation Size Real-Time Adaptive Perturb and Observe (P&O) MPPT Algorithm for PV Systems. IEEE Access, 2021, 9, 138468-138482.	2.6	12
3278	A Simple Multi-Vector Predictive Direct Power Control Using Geometric Modulation. IEEE Transactions on Power Electronics, 2022, 37, 2899-2908.	5.4	6
3279	Harmonic Power-Flow Study of Polyphase Grids With Converter-Interfaced Distributed Energy Resourcesâ€"Part II: Model Library and Validation. IEEE Transactions on Smart Grid, 2022, 13, 470-481.	6.2	3
3280	Arduino-Based Three-Phase Inverter Using Power MOSFET for Application in Microgrid Systems. International Journal of Electrical and Electronic Engineering and Telecommunications, 2021, , 416-424.	3.4	15

#	Article	IF	Citations
3281	Phase-Unsynchronized Power Decoupling Control of MMC Based on Feedback Linearization. IEEE Transactions on Power Electronics, 2022, 37, 2946-2958.	5.4	10
3282	A Passivity-Based Weighted Proportional-Derivative Feedforward Scheme for Grid-Connected Inverters With Enhanced Harmonic Rejection Ability. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2023, 11, 3656-3668.	3.7	8
3283	Reduced-Order Model of Distributed Generators With Internal Loops and Virtual Impedance. IEEE Transactions on Smart Grid, 2022, 13, 119-128.	6.2	8
3284	An Improved Model of Voltage Source Converters for Power System Harmonic Studies. IEEE Transactions on Power Delivery, 2022, 37, 3051-3061.	2.9	9
3285	Control Strategy and Stability Assessment of Microgrid-based Flexible Loads. , 2021, , .		0
3286	Grid Interfacing of Multi-megawatt Photovoltaic System under Normal and Partial Shading Conditions. , 2021, , .		0
3287	Synchronization of the Photovoltaic Converter with On-Board High Frequency Grid. , 2021, , .		1
3288	Frequency Estimation for Grid-Tied Inverters Using Resonant Frequency Estimator. Energies, 2021, 14, 6513.	1.6	2
3289	An investigation of Grid-Integrated Photovoltaic system intended for hybrid Moth Flame Optimization using ANFIS techniques. Journal of Intelligent and Fuzzy Systems, 2022, 42, 2505-2519.	0.8	1
3290	Modelling method of microgrid system based on multiâ€modal dimensions in islanding mode. IET Renewable Power Generation, 2021, 15, 3873-3890.	1.7	1
3291	Grid Forming Stator Flux Control of Doubly-Fed Induction Generator. Energies, 2021, 14, 6766.	1.6	5
3292	Synchronization of Active Power Filter under Distorted Grid Conditions. International Journal of Robotics and Control Systems, 2021, 1, 378-389.	0.6	0
3293	Recent advances in synchronization techniques for grid-tied PV system: A review. Energy Reports, 2021, 7, 6581-6599.	2.5	42
3294	Direct power control for wind-turbine driven doubly-fed induction generator with constant switch frequency. , 2007, , .		15
3295	Current control of distributed generation power inverters for losses reduction in the distribution network. Renewable Energy and Power Quality Journal, 2008, 1, 202-206.	0.2	0
3296	Performance limitations of B6 inverters during unsymmetrical voltage sag conditions. Renewable Energy and Power Quality Journal, 2008, 1, 737-742.	0.2	0
3297	A review of linear advanced current control techniques for grid connected PV inverters. Renewable Energy and Power Quality Journal, 2010, 1, 1123-1128.	0.2	1
3298	Development of LED Lamp which using Transparent Plastic Substrates. Journal of the Korean Institute of Illuminating and Electrical Installation Engineers, 2010, 24, 1-7.	0.0	0

#	Article	IF	Citations
3299	A SRF Power Flow Control Method for Grid-Connected Single-Phase Inverter Systems. Journal of the Korean Institute of Illuminating and Electrical Installation Engineers, 2010, 24, 129-135.	0.0	1
3300	Source Model for Harmonic Interaction Analysis between Renewable Energy Generators and Power Distribution System. Transactions of the Korean Institute of Electrical Engineers, 2011, 60, 733-738.	0.1	0
3301	Hybrid Damping in Higher Order Line Side Filter in Active Front-end Operation. International Journal of Computer and Electrical Engineering, 2012, , 218-222.	0.2	0
3302	Ultra Capacitor Based Sensorless Current Control of Grid Connected Inverter for Power Quality Improvement. IOSR Journal of Electrical and Electronics Engineering, 2012, 3, 18-34.	0.0	0
3303	Grid Current Control Strategy Based on Internal Model Control and Repetitive Control. Communications in Computer and Information Science, 2012, , 147-156.	0.4	0
3304	Issues on Interfacing Problematics in PV Generator and MPP-Tracking Converters. , 0, , .		3
3305	Development of 500[kWh] Lithium-Ion Battery Energy Storage System with 2[MVA] Power Conditioning System for Utility Interconnection. Renewable Energy and Power Quality Journal, 0, , 672-676.	0.2	0
3306	Droop Controller Limitation for Voltage Stability in an Islanded Microgrid. Renewable Energy and Power Quality Journal, 0, , 826-830.	0.2	1
3307	Grid Synchronization Algorithm For DG Systems Using DSRF PLL. International Journal of Power System Operation and Energy Management, 2012, , 236-241.	0.1	0
3308	Modeling and Reactive Power Control of Wind and Fuel Cell Technologies in Distribution Networks. Renewable Energy and Power Quality Journal, 0, , 236-241.	0.2	0
3309	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
3310	Tracking and Linkage Control Methods of Distributed Generation Based on Passivity Characteristics: Tolerance to Voltage Sag. IEEJ Transactions on Industry Applications, 2013, 133, 685-691.	0.1	0
3311	Synchronization of Photo-voltaic system with a Grid. IOSR Journal of Electrical and Electronics Engineering, 2013, 7, 01-05.	0.0	3
3312	Control Strategy For Intelligent Grid With Distributed Generation During Grid Connected And Islanding Mode. I-manager S Journal on Power Systems Engineering, 2013, 1, 18-23.	0.1	2
3313	Advanced Repetitive Controller to Improve the Voltage Characteristics of Distributed Generation with Nonlinear Loads. Journal of Power Electronics, 2013, 13, 409-418.	0.9	19
3315	POWER QUALITY IMPROVEMENT OF GRID INTERCONNECTED DISTRIBUTION SYSTEM USING FSS-LMS ALGORITHM. International Journal of Research in Engineering and Technology, 2013, 02, 950-954.	0.1	0
3316	ANALYSIS OF INVERTER FED MICROGRIDS FOR DIFFERENT MODES OF OPERATION IN MATLAB/SIMULINK. International Journal of Power System Operation and Energy Management, 2013, , 187-190.	0.1	1
3317	Linear Control Approaches for DC-AC and AC-DC Power Converters. Advanced Textbooks in Control and Signal Processing, 2014, , 237-296.	0.6	0

#	Article	IF	Citations
3318	Interconnected Autonomous Microgrids in Smart Grids with Self-Healing Capability. Green Energy and Technology, 2014, , 347-381.	0.4	1
3319	Control for Fault Ride-Through Capability Augmentation. Power Systems, 2014, , 153-218.	0.3	0
3320	A Control Strategy for Single-phase Grid-Connected Inverter with Power Quality Regulatory Function. TELKOMNIKA Indonesian Journal of Electrical Engineering, 2013, 12, .	0.1	3
3321	Sensorless Control of Flow and Pressure by Using Micro Hydropower Generator. IEEJ Transactions on Industry Applications, 2014, 134, 338-343.	0.1	1
3322	4-Unit Cascade Dual Buck Inverter Using Control Systems. IOSR Journal of Electrical and Electronics Engineering, 2014, 9, 87-105.	0.0	1
3323	A Cascaded Dual Buck Half-Bridge Inverter for Efficient Power Flow Control in Grid. IOSR Journal of Electrical and Electronics Engineering, 2014, 9, 08-13.	0.0	1
3325	Implementation and Test of 3-level NPC VSC-HVDC System using Hardware-in-the-Loop Simulation. Transactions of the Korean Institute of Electrical Engineers, 2014, 63, 343-348.	0.1	0
3326	Control strategy for an interface to improve the power quality at the connection of AC microgrids. Renewable Energy and Power Quality Journal, 0, , 806-810.	0.2	12
3327	A Novel Scheme of Computer Application for Extracting Grid Fundamental Positive Sequence Voltage Vector under Unbalance and Distortion Grid Condition. Journal of Information and Computational Science, 2014, 11, 1785-1793.	0.1	0
3328	A Lyapunov Approach to Control Design for Grid-Connected Inverters. TELKOMNIKA Indonesian Journal of Electrical Engineering, 2014, 12, .	0.1	0
3329	Simulation and Analysis of IGBT Based Inverter for Protective System Using Microcontroller. International Journal of Advanced Research in Electrical Electronics and Instrumentation Engineering, 2014, 03, 12186-12189.	0.0	0
3330	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
3331	A Novel Single Phase Synchronous Reference Frame Phase-Locked Loop with a Constant Zero Orthogonal Component. Journal of Power Electronics, 2014, 14, 1334-1344.	0.9	9
3332	An Improved Topology of DC Circuit Breaker Based on Inverse Current Injection Method. Transactions of the Korean Institute of Electrical Engineers, 2014, 63, 1491-1496.	0.1	1
3333	Microrredes basadas en ElectrÃ³nica de Potencia: CaracterÃsticas, OperaciÃ³n y Estabilidad. Ingenius: Revista De Ciencia Y TecnologÃa, 2014, , 15-23.	0.1	2
3334	Smart-Grid Based Real-Time Load Management Methodology for Power Deficient Systems. International Journal of Electronics and Electrical Engineering, 2015, 3, .	0.2	3
3336	Stable Integration of Power Electronics-Based DG Links to the Utility Grid with Interfacing Impedance Uncertainties. IFIP Advances in Information and Communication Technology, 2015, , 502-511.	0.5	0
3337	Robust Active Damping Method for a PWM Converter Operating with an Unknown Inductance on the Power Grid. IEEJ Journal of Industry Applications, 2015, 4, 277-285.	0.9	2

#	Article	IF	Citations
3338	Impact of the Fermeuse Wind Farm on Newfoundland Grid. Energy and Power Engineering, 2015, 07, 258-269.	0.5	0
3341	Transient Stability Analysis of Distributed Generation Connected with Distribution Network. International Journal of Electrical Energy, 2015, 3, .	0.4	1
3342	Mitigation of Voltage Fluctuations using fuzzy-based D-STATCOM in High Level Penetration of DG Systems. IAES International Journal of Artificial Intelligence, 2015, 4, 72.	0.6	0
3343	AC Voltage Transforming Circuits in Power Systems. Przeglad Elektrotechniczny, 2015, 1, 10-19.	0.1	0
3344	A Modified Capacitor Current Feedback Active Damping Approach for Grid Connected Converters with an LCL Filter. Journal of Power Electronics, 2015, 15, 1286-1294.	0.9	4
3345	Simple Technique Reducing Leakage Current for H-Bridge Converter in Transformerless Photovoltaic Generation. Journal of Power Electronics, 2016, 16, 153-162.	0.9	4
3346	Design and Implementation of ANFIS Controller Based Grid Connected Voltage Source Inverters in RTOS Environment. Circuits and Systems, 2016, 07, 2452-2466.	0.1	0
3347	A Study of Islanding Mode Control in Grid-Connected Photovoltaic Systems. Green Energy and Technology, 2016, , 169-214.	0.4	2
3348	Grid Connected Photovoltaic Systems: Challenges and Control Solutions - A Potential Review. International Journal of Electronics and Electrical Engineering, 2016, , 463-473.	0.2	4
3349	POWER CONTROL AND HARMONIC ANALYSIS OF MICROGRID. International Journal of Research in Engineering and Technology, 2016, 05, 372-377.	0.1	0
3350	Research on Problems of the Loss of Distributed Power Grid Switch and Heat Dissipation. International Journal of Grid and Distributed Computing, 2016, 9, 337-346.	0.8	0
3351	A Study on the Fault Analysis of the LVDC Using PSCAD/EMTDC. The Transactions of the Korean Institute of Electrical Engineers P, 2016, 65, 219-223.	0.0	0
3352	New adaptive droop control with combined line impedance estimation method for parallel inverters. Science and Technology Development Journal, 2016, 19, 45-64.	0.0	1
3353	Decomposition of Mega-Solar for Interconnecting to a Weak Power System. International Journal of Environmental Science and Development, 2017, 8, 139-146.	0.2	0
3354	Maximizing Power Output of a Partially Shaded Total-Cross-Tied Photovoltaic array. Transactions on Environment and Electrical Engineering, 2016, 2, 10.	0.5	3
3355	Power Quality Enhancement in Grid Connected PV Systems using High Step Up DC-DC Converter. International Journal of Electrical and Computer Engineering, 2017, 7, 720.	0.5	4
3356	New Control Algorithms for Microgrids Based on Microturbines. Renewable Energy and Power Quality Journal, 2017, 1, 893-898.	0.2	0
3357	A Hybrid Static Compensator for Dynamic Reactive Power Compensation and Harmonic Suppression. Journal of Power Electronics, 2017, 17, 798-810.	0.9	5

#	Article	IF	Citations
3358	Controller Design for LCL-Type Grid-Connected Inverter with Capacitor-Current-Feedback Active-Damping. CPSS Power Electronics Series, 2018, , 95-120.	0.2	0
3359	Application Scenarios. , 2018, , 93-104.		0
3360	Control of LVRT of PMSG in Back-to-Back Wind Energy Conversion System. Przeglad Elektrotechniczny, 2017, 1, 38-42.	0.1	0
3361	Harmonic Mitigation Techniques for Non-Linear Loads: An Organized Investigation. International Journal of Engineering and Technology, 2017, 9, 3979-3987.	0.1	1
3362	Sliding Droop Control For Distributed Generation In Microgrids. EletrÃ´nica De PotÃªncia, 2024, 22, 429-439.	0.1	2
3363	Synchronized Operation of Grid Power, Solar Power, and Battery for Smart Energy Management. Advances in Computer and Electrical Engineering Book Series, 2018, , 255-291.	0.2	2
3364	Improvement of DSOGI PLL Synchronization Algorithm with Filter on Three-Phase Grid-connected Photovoltaic System. Jurnal Elektronika Dan Telekomunikasi, 2018, 18, 35.	0.6	7
3365	Study of Adaptive Hybrid Off-grid Inverter with low DC-link Voltage and Active Part Rating. , 2018, , .		0
3366	Primary voltage and current control for an autonomous inverter-based microgrid. International Journal of Smart Grid and Clean Energy, 2019, , 790-797.	0.4	0
3367	Neural Network Predictive Controller for Grid-Connected Virtual Synchronous Generator. SSRN Electronic Journal, 0, , .	0.4	0
3368	Rudiment of energy internet: coordinated power dispatching of intraâ€•and interâ€•local area packetisedâ€•power networks. IET Smart Grid, 2019, 2, 214-223.	1.5	3
3369	A ZVS DC-DC Converter Based on Buck Topology. , 2019, , .		2
3370	Performance Enhancement of DC Load and Batteries in Photovoltaic System. International Journal of Trend in Scientific Research and Development, 2019, Volume-3, 36-40.	0.0	0
3371	Exploration of Time-Delay Effect on the Stability of Grid-Connected Power Converters with Virtual Inertia. , 2019, , .		1
3372	Parameters Design Strategy of PBC Controller for LCL-Filtered Grid-Tied Inverter Based on Limited Steady-State Error. , 2019, , .		0
3373	A virtual synchronous generator adopting dynamic damping without frequency detection. , 2019, , .		0
3374	Inertia Emulation through Supercapacitor Energy Storage Systems. , 2019, , .		17
3375	Numerator-Denominator Model Based H_{âˆž} Robust Control for LCL Filter-Based Grid-Connected Inverters under Weak Grid Conditions. , 2019, , .		0

#	Article	IF	Citations
3376	Novel Nonlinear DC-Link Voltage Control for Small-Scale Grid-Connected Wind Power Converters. , 2019, , .		1
3377	A Robust Harmonic Compensation Technique for the Single Phase Grid Connected Inverters under the Distorted Grid Voltage Conditions. , 2019, , .		1
3378	A Frequency Deadband-Based Virtual Inertia Control for Grid-Connected Power Converters. , 2019, , .		5
3379	Frequency Characteristic and Impedance Analysis on Three-Phase Grid-Connected Inverters Based on DDSRF-PLL. , 2019, , .		6
3380	Overview of Wind Energy Conversion Systems (WECS). , 2019, , 9-25.		0
3381	Performance analysis of SRF-PLL and DDSRF-PLL algorithms for grid interactive inverters. International Advanced Researches and Engineering Journal, 2019, 3, 116-122.	0.4	19
3382	Selective output impedance based control for grid-connected inverters. , 2019, , .		0
3383	Performance Evaluation of Model Predictive Current Controlled Grid Tied Converter for Sampling Frequency Variations. International Journal on Electrical Engineering and Informatics, 2019, 11, 463-473.	0.3	1
3384	Active Reconfigurable Operation with Long Short-Term Memory Prediction for Smart City Microgrids. , 2019, , .		0
3385	Sub-Synchronous Control Interaction in Grid-Forming VSCs with Droop Control. , 2019, , .		34
3386	Near-Synchornous Resonance Interaction of Paralleled Grid-forming Converters in Islanded Operation. , 2019, , .		4
3387	A Pre-synchronization Method for Grid-connection Based on Virtual Synchronous Generator. , 2019, , .		4
3389	A Robust Open-Loop Frequency Estimation Method for Single-Phase Systems. Lecture Notes in Electrical Engineering, 2020, , 515-524.	0.3	0
3390	The Impact of the Imbalance Netting Process on Power System Dynamics. Energies, 2019, 12, 4733.	1.6	1
3391	ÅžEBEKE ETKÄ°LEÅžÄ°MLÄ° EVÄ°RÄ°CÄ°LER Ä°Ã‡Ä°N FAZ KÄ°LÄ°TLEME DÃ–NGÃœSÃ¼ YÃ–NTEMLERÄ°NÄ°N PERFORMANSLARININ K Konya Journal of Engineering Sciences, 2019, 7, 713-728.	0.1	0
3392	Multi-Port System for Storage and Management of Regenerative Braking Energy in Diesel-Electric Locomotives. , 2019, , .		1
3393	A comprehensive review on integrating renewable energy sources into smart grid : Challenges and Solutions. International Journal of Engineering and Technology, 2019, 11, 1198-1208.	0.1	1
3394	Problems and challenges of power-electronic-based power system stability: A case study of transient stability comparison. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 088907.	0.2	14

#	Article	IF	Citations
3395	Impact of Inverter Controller-Based Grid-Connected PV System in the Power Quality. International Journal of Electrical and Electronic Engineering and Telecommunications, 2020, , 462-469.	3.4	15
3396	A voltage support control strategy based on three-port flexible multi-state switch in distribution networks. Plasma Science and Technology, 2020, 22, 085603.	0.7	0
3397	Yenilenebilir Enerji KaynaklarÄ±na DayalÄ± Bir Sistemde GÃ¼Ã§ Kalitesi Analizi, KontrolÃ¼ ve Ä°zlemesi. Gazi Ãœniversitesi Fen Bilimleri Dergisi, 2020, 8, 572-587.	0.2	5
3398	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
3399	Grid Voltage Modulated Direct Power Control (DPC) for Grid Connected Voltage Source Inverter with Band Pass Filter. International Journal for Research in Applied Science and Engineering Technology, 2020, 8, 945-953.	0.1	0
3400	A Data-driven Optimal Sizing and Control Methodology for Hybrid Storage System. , 2020, , .		0
3401	Discrete-time Direct Pole Placement for Stability Enhancement of LCL-Filtered Inverters in the Synchronous-Reference Frame. , 2020, , .		1
3402	Comparative Analysis of Reliability for String and Central Inverter PV Systems in Accordance with the FMECA. , 2020, , .		1
3404	Utility Synchronization of PV-WGS-BES Based Distributed Generation Microgrid Using ITOF-FLL Control Algorithm. , 2020, , .		0
3405	Reliability Analysis of a Solar Inverter during Reactive Power Injection. , 2020, , .		5
3406	A Survey on Demand Response in Smart Power Distribution Systems. , 2020, , .		3
3407	Investigation of PLLs for Distributed Generation Systems in the Grid-connected Mode of Operation. , 2020, , .		1
3408	Fault Detection in Islanded Microgrid Based on Positive Power Sequence Component. , 2020, , .		1
3409	Feedforward phase compensation method of LCL gridâ€connected inverter based on allâ€pass filter in weak grid. IET Power Electronics, 2020, 13, 4407-4416.	1.5	6
3410	An Adaptive Strategy for DC-Link control of Active Front End for Four Quadrant Drives. , 2020, , .		0
3411	Stability Assessment of Current Controller with Harmonic Compensator for LCL-Filtered Grid-Connected Inverter under Distorted Weak Grid. Applied Sciences (Switzerland), 2021, 11, 212.	1.3	4
3412	Performance Analysis of Robust Reference Current Tracking Controllers for Single Phase LCL-type Grid Connected Converter through Active Damping Approach. , 2020, , .		3
3413	Comparison of Passive Damping based LCL Filter Design Methods for Grid-connected Voltage Source Converters. , 2020, , .		2

#	Article	IF	Citations
3414	Improving synchronization stability of grid connected converters by virtual impedance. IET Generation, Transmission and Distribution, 2021, 15, 1136-1143.	1.4	0
3415	Cascaded Sliding DFT Based Grid Synchronization Technique With DC Offset Removal Capability. , 2020, , .		1
3416	Pattern Recognition Technique based Islanding Detection Scheme in Grid-connected PV System. , 2020, , .		0
3417	Modeling, Simulation and Stability Analysis of Multilevel Inverter Control for Grid Connected Distributed Generation. , 2020, , 232-236.		0
3418	On the Stability of the Power Electronics-Dominated Grid: A New Energy Paradigm. IEEE Industrial Electronics Magazine, 2020, 14, 65-78.	2.3	78
3419	Robust Control of Grid-Interfaced Wind Energy Conversion System Based on Active Disturbance Rejection Control. Lecture Notes in Networks and Systems, 2021, , 62-70.	0.5	0
3420	Improved Operational Schemes for MSC-GCCI Architecture used in Large Solar PV Plants. , 2020, , .		0
3421	Improvement of the current quality of a single-phase photovoltaic system connected to the grid. , 2020, , .		0
3423	Control of Wind-Battery Based Microgrid With Seamless Synchronization to Grid/DG Set. , 2020, , .		1
3424	Bus protection in systems with inverter interfaced renewables using composite sequence currents. International Journal of Electrical Power and Energy Systems, 2022, 136, 107665.	3.3	5
3425	Single Stage PLL-less Decoupled Active and Reactive Power Control for Weak Grid Interactive Inverters. IFAC-PapersOnLine, 2020, 53, 12390-12395.	0.5	5
3426	Performance of Control Algorithms in Wind-Based Distributed Generation System with Power Quality Features: A Review. Lecture Notes in Electrical Engineering, 2020, , 51-109.	0.3	0
3427	Modeling and Derivation of Small Signal Model for Grid-Connected Inverters. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2020, , 205-214.	0.2	0
3428	Unbalanced Voltage Mitigation with Reactive Power Control of Grid-Tied Solar PV System. Springer Proceedings in Energy, 2020, , 877-891.	0.2	0
3430	Performance of Second-Order Generalized Integrator Based Adaptive Filter Under Adverse Grid Conditions. Lecture Notes in Electrical Engineering, 2020, , 685-695.	0.3	1
3431	DSTATCOM Using Limit Cycle Oscillator FLL with Optimized Gains of Voltage Error Controllers. Lecture Notes in Electrical Engineering, 2020, , 301-315.	0.3	0
3432	Control Strategy of a Solid State Transformer for the Grid-side Converter. Recent Advances in Electrical and Electronic Engineering, 2020, 13, 27-35.	0.2	4
3433	Grid-Following Voltage Source Converters: Basic Schemes and Current Control Techniques to Operate With Unbalanced Voltage Conditions. IEEE Open Journal of the Industrial Electronics Society, 2021, 2, 528-544.	4.8	8

#	Article	IF	Citations
3434	Behavior of Three-Phase Inverters under Grid Faults Explained from a Geometric Perspective. , 2021, , .		0
3435	A Data-Driven Based Online Learning Control of Voltage Source Converter for DC Microgrids. , 2021, , .		7
3436	AFFTOGI Control for Power Quality Improvement and Seamless Transition in Grid-Tied SPV-BES System. , 2021, , .		0
3437	Development of Hybrid Station for G2V, V2G using SPWM and ABC-DQ Technique. , 2021, , .		0
3438	Nonlinear Partial Feedback Linearized Controller Design for Islanded AC Microgrid Connected Distributed Generations. , 2021, , .		0
3439	Frequency Stability of AC/DC Interconnected Power Systems with Wind Energy Using Arithmetic Optimization Algorithm-Based Fuzzy-PID Controller. Sustainability, 2021, 13, 12095.	1.6	27
3440	Control of a grid connected photovoltaic systems using classical controller. , 2020, , .		0
3441	Coordinated Control Strategy for Ship Wind Power Hybrid Energy Storage. , 2020, , .		0
3442	Synchronization, Fault Detection of PV Array and Grid with MPPT Techniques Using MATLAB/Simulink. Lecture Notes in Electrical Engineering, 2021, , 271-282.	0.3	0
3443	Power Electronics and Controls in Solar Photovoltaic Systems. , 0, , 68-125.		0
3444	Power Electronics and Controls in Solar Photovoltaic Systems. , 0, , 2016-2072.		0
3445	Conducted commonâ€mode electromagnetic interference suppression in the AC and DC sides of a gridâ€connected inverter. IET Power Electronics, 2020, 13, 2926-2934.	1.5	8
3447	Resilient distributed control of BESSs and voltage source converterâ€based microgrids considering switching topologies and nonâ€uniform timeâ€varying delays. IET Generation, Transmission and Distribution, 2020, 14, 5060-5071.	1.4	4
3448	Design of modular low-profile frequency converter for multi-motor manipulators. , 2020, , .		2
3449	Family of Splitting Current Single-Loop Control for LCL- Type Grid-Connected Inverter. , 2020, , .		0
3451	Adaptive controller based on grid impedance estimation for stable operation of gridâ€connected inverters under weak grid conditions. IET Power Electronics, 2020, 13, 2692-2705.	1.5	7
3453	Single-Stage Grid-Connected PV System With Finite Control Set Model Predictive Control and an Improved Maximum Power Point Tracking. IEEE Transactions on Sustainable Energy, 2022, 13, 791-802.	5.9	17
3454	Dual Active Compensation for Voltage Source Rectifiers Under Very Weak Grid Conditions. IEEE Access, 2021, , 1-1.	2.6	0

#	Article	IF	Citations
3455	Power electronics technologies for renewable energy sources. , 2022, , 403-455.		0
3456	Enhancement of MPPT controller in PV-BES system using incremental conductance along with hybrid crow-pattern search approach based ANFIS under different environmental conditions. Sustainable Energy Technologies and Assessments, 2022, 50, 101812.	1.7	14
3457	A Novel PRESH controller design for three phase grid tied SPPS. Energy Reports, 2022, 8, 1-8.	2.5	0
3458	Research on Initialization of EMT Simulation for Photovoltaic Grid-Connected System. , 2021, , .		0
3459	Dynamic Model Validation and Harmonic Stability Analysis of Offshore Wind Power Plants. , 2021, , .		1
3460	A PLL-Equivalent Model for Low Frequency Dynamic Analysis of Weak-Grid connected VSC. , 2021, , .		3
3461	Review of DC Offshore Wind Farm Topologies. , 2021, , .		2
3462	Discrete Time Analysis of Dual Loop Stationary Frame Integral Dominant Voltage Regulated Inverters. , 2021, , .		2
3463	Stability Analysis and Improvement of Three-Phase Grid-Tied Power Converters through the Generalized Phase Portraits Method. , 2021, , .		0
3464	Feedback Linearization based Direct Power Control of a three-phase grid-connected inverter with online parameter update. , 2021, , .		5
3465	Comparison Of Anti-Windup Alternatives For Parallel Controllers. , 2021, , .		0
3466	A Data-Driven Based Online Learning Control of Voltage Source Converter for DC Microgrids. , 2021, , .		2
3467	High Performance Predictive Control based Power Conversion for Photovoltaic Energy Harvesting. , 2021, , .		0
3468	A Fully Symmetrical Three-port Hybrid Converter for PV Systems. , 2021, , .		1
3469	System-Level Mapping of Modeling Methods for Stability Characterization in Microgrids. , 2021, , .		2
3470	Evaluating Small-Signal Synchronization Stability of grid-forming converter through Complex Impedance Plane. , 2021, , .		1
3471	Transient Stability Enhancement for Virtual Synchronous Generator by Combining Direct Power Control. , 2021, , .		1
3472	Control of Soft Switching Solid State Transformer based on Lyapunov Energy Function for Three-phase AC-AC Power Conversion. , 2021, , .		4

#	Article	IF	Citations
3473	An Improved Control Strategy for Grid-Tied Inverters Under Faulty Grid Conditions. Lecture Notes in Networks and Systems, 2022, , 342-352.	0.5	0
3474	Grid Synchronization Techniques: A Review. Lecture Notes in Mechanical Engineering, 2022, , 187-195.	0.3	0
3475	Robust Stability Assessment of Single-Phase Inverter With Multiparameter Distributions. IEEE Transactions on Power Electronics, 2022, 37, 6062-6073.	5.4	6
3476	A fast finite sample count symmetric component extraction method for use in grid side converters. International Journal of Electrical Power and Energy Systems, 2022, 137, 107857.	3.3	1
3477	Analysis and Design of PLL Less Current Control for Weak Grid-Tied LCL-Type Voltage Source Converter. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 4026-4040.	3.7	14
3478	An Adaptive DC-Link Voltage Control of a Multifunctional SPV Grid-Connected VSI for Switching Loss Reduction. IEEE Transactions on Industrial Electronics, 2022, 69, 12946-12956.	5.2	7
3480	Decoupled Magnetic Integration of Symmetrical LCL Filter With a Common-Mode Inductor for Single-Phase Grid-Connected Converters. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2022, 3, 966-977.	3.0	6
3481	Open-Loop Synchronization Systems for Grid-Tied Power Converters: Literature Overview, Design Considerations, Advantages, and Disadvantages. IEEE Industrial Electronics Magazine, 2022, 16, 14-22.	2.3	4
3482	Nonlinear Modular State-Space Modeling of Power-Electronics-Based Power Systems. IEEE Transactions on Power Electronics, 2022, 37, 6102-6115.	5.4	15
3483	Adaptive Distance Protection Based on the Analytical Model of Additional Impedance for Inverter-Interfaced Renewable Power Plants During Asymmetrical Faults. IEEE Transactions on Power Delivery, 2022, 37, 3823-3834.	2.9	13
3484	Accurate Phase Detection System Using Modified SGDFT-Based PLL for Three-Phase Grid-Interactive Power Converter During Interharmonic Conditions. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-11.	2.4	18
3485	A Generalized Real-Time Computation Method With Dual-Sampling Mode to Eliminate the Computation Delay in Digitally Controlled Inverters. IEEE Transactions on Power Electronics, 2022, 37, 5186-5195.	5.4	27
3486	Double-Loop Control Strategy With Cascaded Model Predictive Control to Improve Frequency Regulation for Islanded Microgrids. IEEE Transactions on Smart Grid, 2022, 13, 3954-3967.	6.2	13
3487	Optimal Tuning of Resonant- and Repetitive-Based Controller for Single-Phase Buckâ€“Boost Inverter With Unfolding Circuit. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2022, 3, 954-965.	3.0	8
3488	Synthetic Benchmarks for Power Systems. IEEE Access, 2021, 9, 162706-162730.	2.6	3
3489	Frequency-Locked Loop Based on Active Noise Cancellation Syncretized Two First-Order Low Pass Filters. IEEE Access, 2022, 10, 7277-7288.	2.6	4
3490	Multi-agent based event-triggered distributed cooperative fault detection. ISA Transactions, 2022, 129, 69-78.	3.1	11
3491	Mapping of Dynamics Between Mechanical and Electrical Ports in SG-IBR Composite Grids. IEEE Transactions on Power Systems, 2022, 37, 3423-3433.	4.6	8

#	Article	IF	Citations
3492	Robust Control of GTIs under wide grid impedance ranges: An approach combining metaheuristics and LMIs. Control Engineering Practice, 2022, 120, 105010.	3.2	5
3493	Elementary changes in topology and power transmission capacity can induce failures in power grids. Physica A: Statistical Mechanics and Its Applications, 2022, 590, 126704.	1.2	4
3494	Hybrid automaton-based disturbance-aware predictive control with receding horizon optimization for three-phase full-bridge inverters. Control Engineering Practice, 2022, 121, 104984.	3.2	0
3495	Model predictive control and optimization of networked microgrids. International Journal of Electrical Power and Energy Systems, 2022, 138, 107804.	3.3	29
3496	A resonant damping control and analysis for LCL-type grid-connected inverter. Energy Reports, 2022, 8, 911-928.	2.5	15
3497	Feedback Linearization-Based Current Control Strategy for Modular Multilevel Converters. IEEE Transactions on Power Electronics, 2018, 33, 161-174.	5.4	93
3498	Phasor-Based Adaptive Control of a Test-Feeder Distribution Network: Application of Retrospective Cost Adaptive Control to the IEEE 13-Node Test Feeder. IEEE Control Systems, 2019, 39, 56-74.	1.0	4
3499	Seamless Transition of Grid connected and Islanded modes in AC Microgrid. , 2020, , .		3
3500	Quasi-Notch-Filter-Based Highly Robust Active Damping for LCL-Filtered Grid-Connected Inverter. , 2020, , .		1
3501	Grid-Tied Three-Phase Inverter Current Control Considering Low Voltage Ride Through Capability: A Comparison between Stationary and Synchronous Reference Frames. , 2020, , .		0
3502	Performance Improvement of Current Controller in Grid-Tie Solar Inverter Using Parameter Estimation. , 2020, , .		0
3503	Control of grid-connected inverter output current: a practical review. , 2020, , .		8
3504	A Weighted Average Feedforward Scheme for LCL-Type Grid-Connected Inverter with High LCL Resonance Frequency. , 2020, , .		1
3505	Positive-Negative Sequence SRF-PLL Model for Accurate Stability Analysis in Grid-Tied Converters. , 2020, , .		5
3506	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
3507	Inertia Emulation in Power Converters with Communication Delays. , 2020, , .		4
3508	A Novel Three-Phase Transformerless Cascaded Multilevel Inverter Topology for Grid-connected Solar PV Applications. , 2020, , .		3
3509	High-Gain Symmetrical Z-Source Hybrid Converter with Low Leakage Currents. , 2020, , .		3

#	Article	IF	Citations
3510	Improved Low Voltage Ride-Through Performance of Single-phase Power Converters using Hybrid Grid Synchronization. , 2020, , .		0
3511	Orthogonal Signal Generation based PLL using Arbitrary Order Exact Differentiator with Inherent Disturbance Rejection for Single Phase Systems. , 2020, , .		3
3512	PLL-less Active and Reactive Power Controller for Grid-Following Inverter. , 2020, , .		18
3513	Intrusion Detection for Cybersecurity of Power Electronics Dominated Grids: Inverters PQ Set-Points Manipulation. , 2020, , .		13
3514	Solar Photovoltaic Array Fed Unified Power Quality Conditioner System Enabling Alleviation of Asymmetrical Voltage Sag. , 2020, , .		1
3515	An Accurate Reactive Power Sharing Strategy for an Islanded Microgrid Based on Online Feeder Impedance Estimation. , 2020, , .		6
3516	Model Predictive Control of Single-Phase Three-Level Inverters with Wide Inductance Variation. , 2020, , .		0
3517	Transfer Learning for Identifying Impedance Estimation in Voltage Source Inverters. , 2020, , .		7
3518	Islanded AC/DC Microgrid Analysis for Three Phase System with Multilevel Inverter and Introducing Droop Theory Based Supervisory Control Algorithm. , 2020, , .		1
3519	Control Technique for High-Frequency Soft-Switching Three-Phase Inverter Under Grid Fault Condition. , 2020, , .		1
3520	DQ Impedance Reshaping of Three-Phase Power-Controlled Grid-Connected Inverter for Low-Frequency Stability Improvement Under Weak Grid Condition. , 2020, , .		7
3521	Decentralized Control for Grid-interactive Hybrid dc/ac Ring Microgrid under Input Source Fluctuations. , 2020, , .		1
3522	Multi-Fidelity Model-based PLL Design for Enhanced Dynamics and Transient Stability during Fault Ride-Through. , 2020, , .		0
3523	100 kHz SiC-MOSFET SAPF with Simple PI Regulator for Selective Harmonic Suppression. , 2020, , .		0
3524	Voltage Control Method of PV Grid-Connected DC Bus based on Tracking Differentiator. , 2020, , .		0
3525	A Decentralized Frequency Regulation Scheme in AC Microgrids. , 2020, , .		0
3526	Input Impedance Modeling and Analysis for a Three-Phase Voltage Source Converter with DC-link Voltage Control. , 2020, , .		0
3527	Estimation of Fault Location Using PPU for Bolted and Non-bolted Faults in a LVDC Microgrid. , 2020, , .		0

#	Article	IF	Citations
3528	An Improved Boost-Type Hybrid Converter with Multiple Outputs. , 2020, , .		0
3529	Assessing Power Factor Distortion and Transient Current Response of Grid Converters During Fault Ride-Through with Extended PLL Models. , 2020, , .		0
3530	Analysis and Design of Robust LLCL-Type Filters for Grid-Tied Applications with Capacitor-Current Active Damping. , 2020, , .		1
3531	Grid Voltage Sensorless Control of Three-Phase LCL Grid-Connected Inverters Using Multisampled Current. , 2020, , .		0
3532	A Method for Improving Stability of Grid-Connected Inverters Based on the Q-Axis Voltage Feedforward Control. , 2020, , .		1
3533	Evaluation of Predictive Direct Current and Direct Power Control for Grid-connected PV Systems. , 2020, , .		2
3534	Hysteresis Band Control of Grid Interactive (PV-SOFC) Hybrid Generating System. , 2020, , .		0
3535	Enhanced Power Quality Control for a Grid-Connected Converter under Unbalanced and Distorted Grid Voltage. , 2020, , .		3
3536	Demands for Bridging Power Electronics and Power System Engineering Concepts. , 2020, , .		2
3537	Improved Feedforward Based on Lead Compensation for LCL Grid-connected Inverter. , 2020, , .		3
3538	Distributed event-triggered quantized consensus for multi-agent systems under general directed graphs. , 2020, , .		3
3539	Synchronization Process and a Pre-synchronization Method of the Virtual Synchronous Generator. , 2020, , .		8
3540	Research on Control Strategy of Four Quadrant Converter in Urban Rail Bidirectional Substation. , 2020, , .		0
3541	Data-Based Intelligent Frequency Control of VSG via Adaptive Virtual Inertia Emulation. IEEE Systems Journal, 2022, 16, 3917-3926.	2.9	10
3542	An Enhanced Active Damping Control Method for LCL-Type Shunt APFs with Proportional-Resonant-Differential Inverter-Side Current Feedback. , 2021, , .		0
3543	Design of a 1 MW Grid-tied Photovoltaic System. , 2021, , .		0
3544	A Robust Dynamic Compensator with Anti-windup Scheme for Grid-Interlinked Photovoltaic Inverter under Unbalanced Grid Voltages. , 2021, , .		0
3545	Optimal Capacity Configuration of VSM-Controlled Grid-Connected Inverters in a Multi-Inverter System Based on Hybrid-Mode Control Under Weak Grids. , 2021, , .		3

#	Article	IF	Citations
3546	Modernistic Synchronization Technique during Adverse Grid Conditions using Shunt Active Power Filter. , 2021, , .		1
3547	Maximum Power Point Tracking for Solar Photovoltaic System using Synchronous Reference Frame Theory. , 2021, , .		2
3548	CORDIC based Orthogonal Signal Generation with In-loop Moving Average Filter for Single Phase PLL Systems. , 2021, , .		0
3549	Data-Driven Modeling of Power-Electronics-Based Power System Considering the Operating Point Variation. , 2021, , .		2
3550	Circulating Current Analysis of Paralleled Grid-connected Inverters Based on the Multi-frequency Model. , 2021, , .		0
3551	An Improved Direct Voltage Component Extraction Method for Grid Connected Converters. , 2021, , .		0
3552	Physics Guided Data-Driven Characterization of Anomalies in Power Electronic Systems. , 2021, , .		4
3553	Robust Multiple-Vector Predictive Control for Power Converters with Grid-Voltage Estimation. , 2021, , .		0
3554	Power Converter Design Based on RTDS Implementation for Interconnecting MVDC and LVDC. Journal of Electrical Engineering and Technology, 2022, 17, 1751-1760.	1.2	3
3555	Voltage-Sensorless Natural Frame Control for Single-Phase CHB Converter under Distorted Grid Conditions. Energies, 2022, 15, 769.	1.6	1
3556	Control Techniques for CRM-Based High-Frequency Soft-Switching Three-Phase Inverter Under Unbalanced Grid Conditions. IEEE Transactions on Power Electronics, 2022, 37, 6613-6624.	5.4	13
3557	A PMSG Wind Energy System Featuring Low-Voltage Ride-through via Mode-Shift Control. Applied Sciences (Switzerland), 2022, 12, 964.	1.3	17
3558	Multi-Sampled Grid-Connected VSCs: A Path Toward Inherent Admittance Passivity. IEEE Transactions on Power Electronics, 2022, 37, 7675-7687.	5.4	17
3559	Impact of Controller Saturation on Instability Behavior of Grid-Connected Inverters. IEEE Transactions on Power Electronics, 2022, 37, 7739-7750.	5.4	7
3560	Indirect Current Control Method Based on Reference Current Compensation of an LCL-Type Grid-Connected Inverter. Energies, 2022, 15, 965.	1.6	4
3561	A Novel Mathematical Approach to Model Multi-Agent-Based Main Grid and Microgrid Networks for Complete System Analysis. Machines, 2022, 10, 110.	1.2	1
3562	Faults and Fault Ride Through strategies for grid-connected photovoltaic system: A comprehensive review. Renewable and Sustainable Energy Reviews, 2022, 158, 112125.	8.2	24
3563	Small-Signal Synchronization Stability Enhancement of Grid-Following Inverters via a Feedback Linearization Controller. IEEE Transactions on Power Delivery, 2022, 37, 4335-4344.	2.9	8

#	Article	IF	Citations
3564	Linear Quadratic Regulator and Fuzzy Control for Grid-Connected Photovoltaic Systems. Energies, 2022, 15, 1286.	1.6	3
3565	Robust finite-control-set model predictive control for voltage source inverters against LC-filter parameter mismatch and variation. Journal of Power Electronics, 2022, 22, 406-419.	0.9	2
3566	Design and Evaluation of a Heterogeneous Lightweight Blockchain-Based Marketplace. Sensors, 2022, 22, 1131.	2.1	1
3567	Fast and accurate grid impedance estimation approach for stability analysis of grid-connected inverters. Electric Power Systems Research, 2022, 207, 107831.	2.1	4
3568	A Three-phase Single Stage Differential Boost Inverter for PV Integration. , 2021, , .		0
3569	Performance of Multifunctional Smart PV-Based Domestic Distributed Generator in Dual-Mode Operation. Machines, 2021, 9, 356.	1.2	3
3570	Grid-Voltage Sensorless Model-Free Predictive Current Control for PWM Rectifiers With Measurement Noise Suppression. IEEE Transactions on Power Electronics, 2022, 37, 10681-10697.	5.4	9
3572	Revisiting Grid-Forming and Grid-Following Inverters: A Duality Theory. IEEE Transactions on Power Systems, 2022, 37, 4541-4554.	4.6	108
3573	A General and Automatic RMS Current Oriented Optimal Design Tool for LLC Resonant Converters. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 7318-7332.	3.7	8
3575	A Digital Frequency Locked Loop With Minimum Computation Overhead for Heavily Distorted Single-Phase Grid Systems. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-13.	2.4	8
3576	Boost Converter Control of PV System Using Sliding Mode Control With Integrative Sliding Surface. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 5522-5530.	3.7	34
3578	A Hybrid-Frame Control Based Impedance Shaping Method to Extend the Effective Damping Frequency Range of the Three-Phase Adaptive Active Damper. IEEE Transactions on Industrial Electronics, 2023, 70, 509-521.	5.2	16
3579	Assessment of Sequence Extraction Methods Applied to MMC-SDBC STATCOM Under Distorted Grid Conditions. IEEE Transactions on Power Delivery, 2022, 37, 4923-4932.	2.9	7
3580	Design and Analysis of a DC-DC Boostconverter With Solar PV Module Integrated to Three- Phase Grid Using SRF Controller. SSRN Electronic Journal, 0, , .	0.4	0
3581	Overview of Power Electronic Converter Topologies Enabling Large-Scale Hydrogen Production via Water Electrolysis. Applied Sciences (Switzerland), 2022, 12, 1906.	1.3	25
3583	Evaluation of a gridâ€connected reducedâ€component boost multilevel inverter (BMLI) topology. International Journal of Circuit Theory and Applications, 2022, 50, 2075-2107.	1.3	12
3584	Analysis and Design of Inertia for Grid-Tied Electric Vehicle Chargers Operating as Virtual Synchronous Machines. Applied Sciences (Switzerland), 2022, 12, 2194.	1.3	4
3585	Designing of Higher-Order Series-Parallel resonant converter with improved ZVS under variable source condition for constant DC-bus System. IOP Conference Series: Materials Science and Engineering, 2022, 1228, 012001.	0.3	0

#	Article	IF	Citations
3586	Multi-Timescale Control of Variable-Speed Wind Turbine for Inertia Provision. Applied Sciences (Switzerland), 2022, 12, 3263.	1.3	3
3587	Topological and Reliable based selection of Inverter module for PV application under standard parameters of Cost and life-Span. IOP Conference Series: Materials Science and Engineering, 2022, 1228, 012026.	0.3	0
3588	Considerations for Inverter Topology Selection and Limitations in Active Power Filtering Applications. , 2022, , .		0
3589	Research on Harmonic Suppression of New Controller in Islanding Mode of Microgrid. IEEJ Transactions on Electrical and Electronic Engineering, 0, , .	0.8	0
3590	Research on Microgrid Connected and Islanded Switching Control Based on Switched System. Journal of Physics: Conference Series, 2022, 2218, 012059.	0.3	0
3591	An enhanced implementation of SRF andÂDDSRF-PLL for three-phase converters in weak grid. International Journal of Emerging Electric Power Systems, 2022, .	0.6	0
3592	Linear Parameter-Varying Control of a Power-Synchronized Grid-Following Inverter. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 2547-2558.	3.7	12
3593	Microgridâ€™s multi-VSGs cooperative control method based on distributed communication. Energy Reports, 2022, 8, 384-392.	2.5	0
3594	Nondetection zone computation and analytics for unintentional islanding in a distribution grid. International Journal of Electrical Power and Energy Systems, 2022, 140, 107986.	3.3	1
3595	Research On Voltage Regulation Strategy Of Multi-Terminal DC Distribution Network. , 2021, , .		2
3596	Dual Sequence Controller with Delayed Signal Cancellation in the Rotating Reference Frame. , 2021, , .		0
3597	Three Different Approaches to Control a Photovoltaic System Connected to an Unbalanced Three Phase Power Grid. , 2021, , .		0
3598	Study and Implementation of Hybrid Power System Interfaced with Grid. , 2021, , .		0
3599	A Novel Energy Management Algorithm for Solar Based Electric Vehicle. , 2021, , .		2
3600	Comparative Study of PI Control and Model Predictive Control for Power Converters with LC Filter. , 2021, , .		0
3601	Overview of Microgrid. Power Systems, 2022, , 1-28.	0.3	2
3602	Bifurcation-Based Transient Stability Analysis of Grid-Forming Converters with DC-Link Voltage Controller. , 2021, , .		1
3603	Robust Control of Smart Transformer-fed Grid. , 2021, , .		3

#	Article	IF	Citations
3604	Real-Time Stability Boundary Identification of Prosumers PCC in a Virtual Power Plant. , 2021, , .		1
3605	Double-Sided Modeling and Stability Analysis for Symmetrical PLL-Synchronized VSC in Weak Grid. , 2021, , .		1
3606	Optimal control design for proportional-resonant controllers with active damping applied to grid-connected converters. , 2021, , .		0
3607	Design and Implementation of Model Predictive Control for Parallel Distributed Energy Resource in Islanded AC Microgrids. , 2021, , .		1
3608	Robust Current Control of Three-Phase Grid-Connected Converters By Using the ADRC Method. , 2021, , .		2
3609	Existence of physical measures in some excitationâ€“inhibition networks*. Nonlinearity, 2022, 35, 889-915.	0.6	2
3610	Research on Control Strategy of Direct-drive Permanent Magnet Synchronous Wind Power System. , 2021, , .		0
3611	An Improved Control Method for Current-controlled VSG during Transient Voltage Disturbance. , 2021, , .		2
3612	System Modeling and Reliability Assessment of Microgrids: A Review. Sustainability, 2022, 14, 126.	1.6	6
3613	Fuzzy Logic Decoupling Control of Real and Reactive Power in Grid-Connected Photovoltaic Power System based a Seven Levels Inverter Linked to a Three-Stage Boost Circuit. Australian Journal of Electrical and Electronics Engineering, 2022, 19, 8-21.	0.7	0
3614	Genetic Algorithm for PI Controller Design of Grid-connected Inverter based on Multilayer Perceptron Model. , 2021, , .		3
3615	Fuzzy Logic Based Synchronization Method for Solar Powered High Frequency On-Board Grid. Energies, 2021, 14, 8194.	1.6	2
3616	Harmonic Mitigation In Grid-Tied TPSPPS Via Novel PRESH Controller. International Journal of Mathematical Models and Methods in Applied Sciences, 2021, 15, 233-238.	0.1	0
3617	Direct Power Control Scheme with Voltage Modulation Control Technique for a Weak Grid Connected Voltage Source converters through Band Pass Filter. , 2021, , .		1
3618	An Adaptive Comparison of Controllers for Power Control in Grid Connected PV System during Fault Conditions. , 2021, , .		0
3619	Uncertainty optimization strategy of wind photovoltaic new energy system based on hydrogen energy storage. , 2021, , .		1
3620	A singleâ€switch highâ€gain DCâ€“DC converter for photovoltaic applications. International Journal of Circuit Theory and Applications, 2022, 50, 1194-1215.	1.3	15
3621	Robust predictive current control of PWM rectifiers with LCL filters under unbalanced and distorted network conditions. IET Power Electronics, 2022, 15, 226-236.	1.5	9

#	Article	IF	Citations
3622	Harmonic Suppression and Stability Enhancement of a Voltage Sensorless Current Controller for a Grid-Connected Inverter Under Weak Grid. IEEE Access, 2022, 10, 38575-38589.	2.6	6
3623	MMC-Based PV Three-Phase System with Distributed MPPT. IEEE Transactions on Energy Conversion, 2022, , 1-1.	3.7	4
3624	Accurate Reactive Power Sharing Strategy for Droop-Based Islanded AC Microgrids. IEEE Transactions on Industrial Electronics, 2023, 70, 2696-2707.	5.2	21
3625	Analysis of Filter Design Approaches for Extraction of Instantaneous Symmetrical Components. , 2022, , .		0
3626	Impedance Transfer Functions Fitting Methods of Grid-connected Inverters: Comparison and Application. , 2022, , .		0
3627	A Soft-Switching Single-Stage AC-DC Converter. , 2022, , .		4
3628	DSP-Based Fault Tolerant Grid Side Converter in PMSG Wind Turbine Using Improved Vector Current Control with Modified SVPWM. , 2022, , .		0
3629	Photovoltaic generator coupled on the electrical grid via an inverter. International Journal of Ambient Energy, 2022, 43, 7454-7462.	1.4	0
3630	Multiobjective Laguerre Functions<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.svg"><mml:mo>â^’</mml:mo></mml:math>Based Discrete<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.svg"><mml:mo>â^’</mml:mo></mml:math>Time Model Predictive Control: A Fast Inner<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.svg"><mml:mo>â^’</mml:mo></mml:math>Loop Controller for Grid<mml:math xmlns:mml=	2.1	1
3636	A Review: Control Strategies for Power Quality Improvement in Microgrid. , 2018, , .		8
3637	A Review of Power Conversion Systems and Design Schemes of High-Capacity Battery Energy Storage Systems. IEEE Access, 2022, 10, 52030-52042.	2.6	22
3638	Design and Implementation of a PLC Based DG Synchronization for High Load Demand Systems. , 2022, , .		1
3639	Sensorless Virtual-Flux Direct Power Control of Grid Connected Converters under Unbalanced Weak Grid Conditions. , 2022, , .		2
3640	Grid-Forming Converter in High Penetration of Converter-Interfaced Generation Large-Scale Power System: A Review of Synchronization Stability. , 2022, , .		1
3641	Prescribed Performance-Based Adaptive Terminal Sliding Mode Control for Virtual Synchronous Generators. Mathematical Problems in Engineering, 2022, 2022, 1-10.	0.6	2
3642	State-Space Modeling, Stability Analysis, and Controller Design of Grid-Forming Converters With Distributed Virtual Inertia. Frontiers in Energy Research, 2022, 10, .	1.2	5
3643	Experimental validation of novel PRESH controller for TPSPPS. Electrical Engineering, 0, , .	1.2	0
3644	Advanced STATCOM Control with the Optimized FOPTID-MPC Controller. IETE Journal of Research, 2023, 69, 3431-3442.	1.8	3

#	Article	IF	Citations
3645	A novel hybrid gravitational and pattern search algorithm based MPPT controller with ANN and perturb and observe for photovoltaic system. Soft Computing, 2022, 26, 7293-7315.	2.1	6
3646	A comprehensive assessment of the state-of-the-art virtual synchronous generator models. Electric Power Systems Research, 2022, 209, 108054.	2.1	22
3647	A hybrid random parameters modification to MPPT algorithm to mitigate interharmonics from single-phase grid-connected PV systems. Energy Reports, 2022, 8, 6234-6244.	2.5	7
3648	Stability analysis of Three-phase Grid-Connected inverter under the weak grids with asymmetrical grid impedance by LTP theory in time domain. International Journal of Electrical Power and Energy Systems, 2022, 142, 108244.	3.3	58
3652	Dual mode switching strategy of LCL grid connected converter based on model predictive control. , 2022, , .		0
3653	A twoâ€stage <scp>IIDG</scp> fault control scheme considering the fault direction identification in active distribution networks. IEEJ Transactions on Electrical and Electronic Engineering, 2022, 17, 1286-1293.	0.8	1
3654	Particle swarm optimization algorithm for dynamic synchronization of smart grid. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2022, 44, 3940-3959.	1.2	3
3655	Robust Delay Compensation Strategy for LCL-Type Grid-Connected Inverter in Weak Grid. IEEE Access, 2022, 10, 67639-67652.	2.6	5
3656	Control of Three-Phase Grid-Connected Inverter Using dq Axis Theory. Lecture Notes in Electrical Engineering, 2022, , 157-167.	0.3	1
3657	Power compensation and Voltage flicker control of Solar-wind hybrid microgrid with optimized D-STATCOM using a control Technique. , 2022, , .		1
3658	Solar Photovoltaic Grid Interactive Inverter Control with Reduced Sensors Count. , 2022, , .		0
3659	Negative Virtual Inductance based Active Damping and Direct Power Control of a Soft Switching Solid State Transformer for PV Application. , 2022, , .		6
3660	Farm-level Interactions Study of a Novel Tri-port Soft-switching Medium-Voltage String Inverter (MVSI) based Large-scale PV-Plus-Storage Farms. , 2022, , .		2
3661	RMS Current based Automated Optimal Design Tool for LLC Resonant Converters. , 2022, , .		3
3662	Impacts of Discretization of the Capacitor-Current-Feedback Path Phase Lead Compensator on Digitally Controlled LCL- Type Grid-Connected Inverter Stability and Robustness. , 2022, , .		2
3663	Transient stability enhancement control strategy for droop-controlled voltage source converter. Energy Reports, 2022, 8, 35-44.	2.5	5
3664	Physics-Informed Neural Network Based Online Impedance Identification of Voltage Source Converters. IEEE Transactions on Industrial Electronics, 2023, 70, 3717-3728.	5.2	9
3665	Dynamic Model of Commercially Available Inverters With Validation Against Hardware Testing. IEEE Transactions on Power Systems, 2023, 38, 2007-2017.	4.6	3

#	Article	IF	Citations
3666	Highly Dynamic AC Current Control for Modular Multilevel Converters. , 2021, , .		0
3667	Beyond the MMC: Extended Modular Multilevel Converter Topologies and Applications. IEEE Open Journal of Power Electronics, 2022, 3, 317-333.	4.0	31
3668	Distributed generating system integration: Operation and control. , 2022, , 29-66.		0
3669	Passivation of Grid-Following VSCs: A Comparison Between Active Damping and Multi-Sampled PWM. IEEE Transactions on Power Electronics, 2022, 37, 13205-13216.	5.4	14
3670	Modeling and Control of a Two-Bus System With Grid-Forming and Grid-Following Converters. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 7133-7149.	3.7	17
3671	Flywheel-Battery Hybrid Energy Storage System Participating in Grid Frequency Regulation Based on Adaptive Inertia Emulation. , 2022, , .		1
3672	Analysis of Converter Topologies for Wind Energy Conversion Systems. , 2022, , .		1
3673	Power <scp>electronicsâ€interfaced cyberâ€physical</scp> power systems: A review on modeling, simulation, and cybersecurity. Wiley Interdisciplinary Reviews: Energy and Environment, 2022, 11, .	1.9	0
3674	Performance improvement of a threeâ€phase PLL under distorted grid conditions based on frequency adaptive hybrid preâ€filtering. IET Power Electronics, 2022, 15, 1429-1440.	1.5	6
3675	Virtual Synchronous Machine Control of RES Plants in Isolated Power Systems. Applied Sciences (Switzerland), 2022, 12, 5920.	1.3	2
3676	Implementation of Mothe Flame optimization technique for DSTATCOM System with Improved widrowâ€“hoff basis. International Journal on Interactive Design and Manufacturing, 0, , .	1.3	0
3677	Three Technical Challenges Faced by Power Systems in Transition. Energies, 2022, 15, 4473.	1.6	5
3678	Topological synchronization of coupled nonlinear oscillators. Physical Review Research, 2022, 4, .	1.3	9
3680	Leveraging Half-Cycle Orthogonal Signal Generation Approach for Pll-Less Tracking of Single-Phase Grid Parameters. SSRN Electronic Journal, 0, , .	0.4	0
3681	A Review on Switched Reluctance Generators in Wind Power Applications: Fundamentals, Control and Future Trends. IEEE Access, 2022, 10, 69412-69427.	2.6	14
3682	Implementation of Three-Phase two Stage Solar PV Inverter for Grid Connection. , 2022, , .		1
3683	Load frequency control in a microgrid using double forward-feedback path fractional order fuzzy controller. , 2022, , .		1
3684	Double-Carrier-Based PWM Theory for Independent Power Control of Dual-Input Three-level Inverters. , 2022, , .		2

#	Article	IF	Citations
3685	Impact of DC-Link Voltage Control on Transient Stability of PLL-Synchronized Voltage-Source Converters. , 2022, , .		6
3686	An Improved Finite Control Set Model Predictive Control for LC-filter VSI Against Model LC Mismatch. , 2022, , .		0
3687	A New Damping Scheme of LLCL Filter for Grid-Tied PV Inverter Output Harmonics Mitigation. , 2022, , .		0
3688	The Effects of Virtual Inertia Control on Power Converters in Nonideal Grid Conditions. , 2022, , .		0
3689	Filter and Controller Identification for Stability Analysis of a Grid-Connected 3-Phase PV Inverter. , 2022, , .		0
3690	Research on LADRC of Grid-Connected Inverter Based on LCCL. Energies, 2022, 15, 4686.	1.6	1
3691	A Literature Review of the Control Challenges of Distributed Energy Resources Based on Microgrids (MGs): Past, Present and Future. Energies, 2022, 15, 4676.	1.6	22
3692	Zero voltage switching high stepâ€up boost converter with coupled inductor for renewable energy applications. International Journal of Circuit Theory and Applications, 2022, 50, 4086-4103.	1.3	1
3693	Angular symmetrical components-based anti-islanding method for solar photovoltaic-integrated microgrid. Automatika, 0, , 1-21.	1.2	0
3694	Grid-Connected Inverter Based on a Resonance-Free Fractional-Order LCL Filter. Fractal and Fractional, 2022, 6, 374.	1.6	2
3695	Design of a Single-Stage Transformerless Buckâ€“Boost Inverter for Electric Vehicle Chargers. Applied Sciences (Switzerland), 2022, 12, 6705.	1.3	2
3696	Adaptive notch filter-based abcâ€“dqâ€“abc transformation. Electrical Engineering, 0, , .	1.2	0
3698	Novel DQ transform and time delay module-based phase-locked loop. Journal of Power Electronics, 0, , .	0.9	1
3700	Grid Fault Resilient Hybrid Grid Synchronization for Single-Phase Solar Inverter. , 2022, , .		0
3701	Three-Level T-Type qZ Source Inverter as Grid-Following Unit for Distributed Energy Resources. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 7772-7785.	3.7	5
3703	Space Vector Modulated Model Predictive Control for Grid-Tied Converters. IEEE Transactions on Industrial Informatics, 2023, 19, 414-425.	7.2	7
3704	Investigation on Power Quality Improvement using ML-FOGI and JLHCAF based VSC control. , 2022, , .		1
3705	Frequency-Supporting Control of a Solid-State Transformer. , 2022, , .		1

#	Article	IF	Citations
3706	Comparison and Analysis of Transformer-less Topologies for Grid-Connected PV Systems. , 2022, , .		3
3707	Grid Forming Inverters: A Review of the State of the Art of Key Elements for Microgrid Operation. Energies, 2022, 15, 5517.	1.6	29
3708	Analysis of High-Performance Two-Stage CPG Interfaced with GTSPPS. Electrical Engineering, 0, , .	1.2	0
3709	Active damping of LCL-Filtered Grid-Connected inverter based on parallel feedforward compensation strategy. Ain Shams Engineering Journal, 2023, 14, 101902.	3.5	1
3710	Control strategy without phaseâ€locked loop based on power estimation and natural frame for singleâ€phase cascaded Hâ€bridge converter. International Journal of Circuit Theory and Applications, 0, , .	1.3	0
3711	Robust Output Feedback Control of the Voltage Source Inverter in an AC Microgrid. Energies, 2022, 15, 5586.	1.6	2
3713	A half-bridge distributed static compensator with a DC-link filter capacitor of a reduced size LCL filter. Frontiers in Energy Research, 0, 10, .	1.2	0
3715	The Second-Order 6kÂ±1-Order Repetitive Control for Three-Phase Grid-Connected Inverter. , 2022, , .		0
3716	LCLâ€filter resonance suppression in gridâ€connected inverter based on strictly real positive plant strategy. International Journal of Circuit Theory and Applications, 2023, 51, 177-196.	1.3	2
3717	Backâ€electromotiveâ€force observer (BEMF observer) based symmetrical PLL for grid synchronization stability enhancement under weak grid conditions. IET Generation, Transmission and Distribution, 0, , .	1.4	0
3718	Output Impedance Derivation and Small-Signal Stability Analysis of a Power-Synchronized Grid Following Inverter. IEEE Transactions on Energy Conversion, 2022, 37, 2696-2707.	3.7	2
3719	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
3720	Stability and performance improvement of grid connected converters. , 2022, , 161-196.		0
3721	Novel Fractional-Order Repetitive Controller Based on Thiran IIR Filter for Grid-Connected Inverters. IEEE Access, 2022, 10, 82015-82024.	2.6	7
3722	Control and Performance of 240-Clamped Space Vector PWM in Three-Phase Grid-Connected Photovoltaic Converters Under Adverse Grid Conditions. IEEE Transactions on Industry Applications, 2022, 58, 7408-7420.	3.3	6
3723	Grid connected converters. , 2022, , 19-44.		0
3724	Synthetic Resilience Exploration and Economic Defense Strategy for Microgrid-Level AC/DC Hybrid Energy System. IEEE Transactions on Power Electronics, 2023, 38, 2565-2576.	5.4	4
3725	Modeling and Control of Variable Speed Drive Based Loads for Grid Primary Frequency Support. IEEE Transactions on Power Delivery, 2023, 38, 1219-1229.	2.9	0

#	Article	IF	Citations
3726	Comprehensive Study of a Hybrid Electric Ship for Optimum Onboard Fuel Consumption. , 2022, , .		0
3727	A Robust Low-Voltage-Ride-Through Strategy for Grid-Forming Converters Based on Reactive Power Synchronization. IEEE Transactions on Power Electronics, 2023, 38, 346-357.	5.4	6
3728	Islanding detection and Transfer of Distributed Generation system from Grid connected to Standalone mode. , 2022, , .		0
3729	Selective harmonic elimination using adaptive feed-forward compensation in single-phase stand-alone voltage source inverters. , 2022, , .		0
3730	Microgrid Stability Improvement Using a Deep Neural Network Controller Based VSG. International Transactions on Electrical Energy Systems, 2022, 2022, 1-17.	1.2	4
3731	Leveraging half-cycle orthogonal signal generation approach for PLL-less tracking of single-phase grid parameters. Measurement: Journal of the International Measurement Confederation, 2022, 203, 111980.	2.5	0
3732	DC-Link voltage control of a multifunctional PV-GCVSI to reduce VSI switching losses. International Journal of Electronics, 2023, 110, 1491-1515.	0.9	0
3733	A high gain soft switched DCâ€“DC converter for renewable applications. International Journal of Electronics, 2023, 110, 1447-1467.	0.9	2
3734	Evaluation of the Main Control Strategies for Grid-Connected PV Systems. Sustainability, 2022, 14, 11142.	1.6	4
3735	A Novel Pre-Synchronization Control Method Based on Open-Loop Phase Detection for the Maritime VSC-HVDC System. Frontiers in Energy Research, 0, 10, .	1.2	1
3736	Flexible Low-Carbon Optimal Dispatch of Honeycombed Active Distribution Network. Energies, 2022, 15, 7107.	1.6	1
3737	Impact of P â€“ Q Control based PV Generator on Memory-Polarized Mho Relay. , 2022, , .		1
3738	Laguerre polynomial functionâ€based inverter control with lowâ€voltage rideâ€through capabilities. International Journal of Circuit Theory and Applications, 2023, 51, 764-786.	1.3	1
3740	High PV Generation Penetration on Power System Inertia: Challenges and Solutions. , 2021, , .		1
3741	Optimized Design of the PLL with Reconstructed Singular Return Ratio Matrix for Grid-Connected Inverter. , 2022, , .		1
3742	Virtual Energy Storage Operation for Smart Photovoltaic Inverters. , 2022, , .		5
3743	An Adaptive Digital Frequency Locked Loop with quarter cycle update for distorted single phase grid. , 2022, , .		1
3744	Virtual Synchronizing Torque and Voltage Controller Based Grid Synchronization of Virtual Synchronous Generator. , 2022, , .		0

#	Article	IF	Citations
3745	A highâ€gain lowâ€ripple DCâ€“DC converter for microâ€grid applications. International Journal of Circuit Theory and Applications, 0, , .	1.3	1
3746	Fault diagnosis algorithm for 3-phase passive rectifiers based on frequency-domain analysis for acceleration grid power supply in CFETR NBI system. Plasma Science and Technology, 2022, 24, 124004.	0.7	1
3747	Hysteresis Based Quasi Fixed Frequency Current Control of Single Phase Full Bridge Grid Integrated Voltage Source Inverter. Energies, 2022, 15, 8112.	1.6	4
3748	Dynamic Grid Voltage-Based Impedance-Reshaped Control for the Stability Enhancement of Grid-Connected DC/AC Converter System under Bidirectional Power Flow. Energies, 2022, 15, 7269.	1.6	1
3749	Review of Fundamental Active Current Extraction Techniques for SAPF. Sensors, 2022, 22, 7985.	2.1	8
3750	Genetic algorithm tuned adaptive discrete-time sliding mode controller for grid-connected inverter with an LCL filter. Energy Reports, 2022, 8, 623-640.	2.5	1
3751	Generic synthetic inertia scheme for voltage source inverters. IET Renewable Power Generation, 0, , .	1.7	0
3752	Hardware validation of hybrid MPPT technique via Novel ML controller and P&O method. Energy Reports, 2022, 8, 77-84.	2.5	3
3753	New digital control paradigms. Synthesis Lectures on Power Electronics, 2015, , 189-211.	1.7	1
3754	A Voltage Support Scheme for Distributed Generation With Minimal Phase Current Under Asymmetrical Grid Faults. IEEE Transactions on Industrial Electronics, 2023, 70, 10261-10270.	5.2	4
3755	Failure Mode Effect Classification for Power Electronics Converters Operating in a Grid-Connected System. IEEE Systems Journal, 2023, 17, 3138-3149.	2.9	1
3756	Unified Grid-Forming/Following Inverter Control. IEEE Open Access Journal of Power and Energy, 2022, 9, 489-500.	2.5	4
3757	On Absolute Stability of Open-Loop Synchronized Single-Phase Grid-Following Inverters. IEEE Transactions on Industrial Electronics, 2023, 70, 10239-10248.	5.2	2
3759	Analysis and Challenges in Wireless Networked Control System: A Survey. International Journal of Robotics and Control Systems, 2022, 2, 492-522.	0.6	4
3760	A new control strategy for harmonic reduction in photovoltaic inverters inspired by the autonomous nervous system. Journal of Electrical Engineering, 2022, 73, 310-317.	0.4	1
3761	Dynamic Performance of Unified Grid-Forming/Following Inverter Control. , 2022, , .		1
3762	Design and Comparison by Simulation of PI and SMC Controllers Applied to a Three Phase Inverter Connected to the Grid. , 2022, , .		0
3763	A high stepâ€up softâ€switched DCâ€DC converter with reduced voltage stress for DC microâ€grid applications. International Journal of Circuit Theory and Applications, 0, , .	1.3	0

#	Article	IF	Citations
3764	Frequency and Voltage Control Techniques through Inverter-Interfaced Distributed Energy Resources in Microgrids: A Review. Energies, 2022, 15, 8580.	1.6	6
3765	Two Dimensional Impedance Analysis of Grid-Connected Converter System: A Review. , 2022, , .		0
3766	Improving Virtual Synchronous Generator Control in Microgrids Using Fuzzy Logic Control. , 2022, , .		5
3767	Research on The Cascaded Fast Power Control System For Renewable Generations. , 2022, , .		1
3768	A Hybrid-Bridge-Based Dual Active Bridge Converter With Reduced Device Count. IEEE Open Journal of Power Electronics, 2022, 3, 930-941.	4.0	1
3769	Capacitor-Current-Feedback With Improved Delay Compensation for LCL-Type Grid-Connected Inverter to Achieve High Robustness in Weak Grid. IEEE Access, 2022, 10, 127956-127968.	2.6	1
3770	An Examination of Power Converter Architectures for Utility-Scale Hybrid Solar Photovoltaic and Battery Energy Storage Systems: The Features of Several Power Conversion Architectures. IEEE Industry Applications Magazine, 2023, 29, 12-31.	0.3	1
3771	Universal Grid-Forming Method for Future Power Systems. IEEE Access, 2022, 10, 133109-133125.	2.6	4
3772	Impact of LVRT Control on Transient Synchronizing Stability of PLL-Based Wind Turbine Converter Connected to High Impedance AC Grid. IEEE Transactions on Power Systems, 2023, 38, 5445-5458.	4.6	2
3773	Experimental Validation for Artificial Data-Driven Tracking Control for Enhanced Three-Phase Grid-Connected Boost Rectifier in DC Microgrids. IEEE Transactions on Industry Applications, 2023, 59, 2563-2580.	3.3	14
3774	A Nonlinear Direct Power Controller for a Three-Phase Grid-Connected Inverter with Online Parameter Update for PV Application. , 2022, , .		1
3775	Adaptive Internal Model based Current Control with Embedded Active Damping of a Three-Phase Grid-Connected Inverter with LCL Filter for PV Application. , 2022, , .		1
3776	The Control Method for LCL-Type Single-Phase Grid-Connected Inverter based on Circuit Energy Storage. , 2022, , .		0
3777	An Improved DBC-MPC Strategy for LCL-Filtered Grid-connected Inverters. , 2022, , .		0
3778	Data-driven Adaptive Observer-based Predictive Control for an Inverter with Output LC Filter. , 2022, , .		0
3779	Active Damping Design of LLCL Grid-Connected Inverter Based on Biquad Filter. , 2022, , .		1
3780	Inspection of the Loss Reduction Effect of Three-Phase Inverter by Using a New Single-Phase PWM Control Method. , 2022, , .		0
3781	Technical Investigation on Robustness Enhancement for Grid-Connected Inverter in Weak Grid by Adding an Improved Grid Voltage Feedforward Path. , 2022, , .		0

#	Article	IF	Citations
3782	Robust Artificial NN-based Tracking Control Implementation of Grid-Connected AC-DC Rectifier for DC Microgrids Performance Enhancement. , 2022, , .		7
3783	Current-Type Power Hardware-in-the-Loop Interface for Black-Start Testing of Grid-Forming Converter. , 2022, , .		7
3784	Electricity losses optimization in distribution networks from the perspective of integration on large scale of renewable energy resources. , 2022, , .		1
3785	Operation and control of Soft Switching Solid State Transformer as a Virtual Synchronous Machine for Photovoltaic application. , 2022, , .		1
3786	High-Performance Grid Current Feedback Control for Three-Phase Voltage-Source Converter with an LCL Filter Under Distorted Grid Conditions. , 2022, , .		1
3787	Multi-Agent Deep Reinforcement Learning for Decentralized Voltage-Var Control in Distribution Power System. , 2022, , .		2
3788	Performance Analysis of Dual Third Order Generalized Integrator based Phase Locked Loop for Three Phase Distorted Grid Condition. , 2022, , .		1
3789	Stability Analysis and Control Optimization Method for Symmetrical PLL-Based VSC in Weak Grid. , 2022, , .		0
3790	Optimized Parameters Initialization of a RMRAC Controller Applied to Grid-Connected Converters. , 2022, , .		2
3791	Damping Torque Analysis of the PLL Low-Frequency Components for Grid Following VSG. , 2022, , .		1
3792	Research on Secondary Frequency Modulation Control Strategy of Virtual Synchronous Generator based on Variable Integral Parameters. , 2022, , .		0
3793	Design and Analysis of Decentralized Virtual Impedance Based Controller for Enhancing Power Sharing and Stability in an Islanded Microgrid. Journal of Electrical Engineering and Technology, 0, , .	1.2	0
3795	Robust back-stepping sliding mode control for LCL-type grid-connected inverters in weak grids. Journal of Power Electronics, 0, , .	0.9	0
3799	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
3800	A Review on Power Electronic Topologies and Control for Wave Energy Converters. Energies, 2022, 15, 9174.	1.6	4
3801	A ZVS-Based Non-Isolated High Step-Up DCâ€“DC Converter With Low Voltage Stress for Renewable Applications. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2023, 11, 2793-2804.	3.7	1
3802	An FPGA Hardware-in-the-Loop Approach for Comprehensive Analysis and Development of Grid-Connected VSI System. Energies, 2023, 16, 759.	1.6	0
3803	Unified Active Damping Strategy Based on Generalized Virtual Impedance in LCL-Type Grid-Connected Inverter. IEEE Transactions on Industrial Electronics, 2023, 70, 8129-8139.	5.2	5

#	Article	IF	Citations
3804	The Propagation of VSC Damping Effect to Exploit AC Transmission Limit. IEEE Transactions on Power Delivery, 2023, , 1-14.	2.9	0
3805	A Reconstructed Singular Return Ratio Matrix for Optimizing Design of the PLL in Grid-Connected Inverters. IEEE Transactions on Industrial Electronics, 2023, 70, 12453-12464.	5.2	0
3806	Single Phase High Frequency AC Link DC/AC Converter for Photovoltaic Systems. Electric Power Components and Systems, 2023, 51, 59-70.	1.0	2
3807	Design of a Repetitive Control for a Three-Phase Grid-Tied Converter under Distorted Grid Voltage Conditions. Energies, 2023, 16, 754.	1.6	1
3808	Hydrogen energy storage system in a Multiâ€'Technology Microgrid:technical features and performance. International Journal of Hydrogen Energy, 2023, 48, 12072-12088.	3.8	9
3809	Active and Reactive Power Control of the Voltage Source Inverter in an AC Microgrid. Sustainability, 2023, 15, 1621.	1.6	1
3810	Power quality and stability improvement of microgrid through shunt active filter control application: An overview. Renewable Energy Focus, 2023, 44, 139-173.	2.2	9
3811	Overview and comparative analysis of bidirectional cascaded modular isolated medium-voltage ACâ€"low-voltage DC (MVAC-LVDC) power conversion for renewable energy rich microgrids. Renewable and Sustainable Energy Reviews, 2023, 174, 113118.	8.2	5
3812	Enhanced PLL-less grid synchronization algorithm amidst unbalanced and distorted three-phase grid conditions. International Journal of Electrical Power and Energy Systems, 2023, 148, 108926.	3.3	3
3813	An Overview on Topology and Control Techniques for Solar PV System. , 2022, , .		0
3814	A Comparative Evaluation of Different Grid Synchronisation Techniques for Estimating the Fundamental Frequency of Three-phase Systems. , 2022, , .		0
3815	Resonant PID Controller Design for a Three-Phase Four-Wire Voltage Inverter with Split DC Buses. Optoelectronics, Instrumentation and Data Processing, 2022, 58, 381-390.	0.2	2
3816	An Improved System Performance Using ANN-FUZZY Logic and MSHO Control for BES-Solar PV and Wind Plant Based Micro-Grid System. , 2022, , .		0
3817	Modeling and Design of PLL-Less Current Controller for Grid Connected Inverter. , 2022, , .		1
3818	Three-Phase SRF PLL Model for System Frequency Response Studies in Low-Inertia Systems. , 2022, , .		3
3819	Impact of Phase-Locked Loop on Transient Stability by Phase Portrait Analysis Method. , 2022, , .		0
3820	RÃ¼zgar Enerji Santrallerinin Elektrik Åžebekesine Etkilerinin Ä°ncelenmesi. , 2022, 5, 50-65.		1
3821	Design and Analysis of a Variable-Speed Constant-Amplitude Wind Generator for Stand-Alone DC Power Applications. IEEE Transactions on Industrial Electronics, 2023, 70, 7731-7742.	5.2	2

#	Article	IF	Citations
3822	Modeling and Stability Analysis Based on Internal Voltage Dynamics in Synchronverter. Electronics (Switzerland), 2023, 12, 700.	1.8	1
3823	A Modified VSG Control Scheme With Virtual Resistance to Enhance Both Small-Signal Stability and Transient Synchronization Stability. IEEE Transactions on Power Electronics, 2023, 38, 6005-6014.	5.4	22
3824	Dual-module VSG control strategy under unbalanced voltage conditions. Journal of Power Electronics, 0, , .	0.9	0
3825	Optimizing Step-Size of Perturb & Observe and Incremental Conductance MPPT Techniques Using PSO for Grid-Tied PV System. IEEE Access, 2023, 11, 13079-13090.	2.6	34
3826	Operation and coordination control scheme of an enhanced ACâ€“DC hybrid microgrid under abnormal distribution network. IET Power Electronics, 0, , .	1.5	0
3827	A Modulation Strategy with Transformer Leakage Inductance Energy Management for a Three-Phase Matrix-based Isolated AC-DC Converter. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2023, , 1-1.	3.7	1
3828	An ANN â€“ Constant power generation control for LVRT of grid-connected PVG. Energy Exploration and Exploitation, 0, , 014459872211505.	1.1	0
3829	Vertical Approach Anomaly Detection Using Local Outlier Factor. Power Systems, 2023, , 297-310.	0.3	0
3830	Improved Control Scheme for Grid Connected Solar PV System with Fuzzy MPPT. , 2022, , .		0
3831	Design of State Observer for a Grid-Connected Inverter with LCL Filter using a Hybrid-SOGI Resonant Controller. , 2022, , .		0
3832	A Hybrid Energy Storage System Based on Supercapacitor and Electric Vehicle Batteries for Frequency Stability Improvement of Islanded Microgrids. , 2022, , .		2
3833	Analysis of Robustness Enhanced LCL Filter Design Based on Stability Region. , 2022, , .		0
3834	Photovoltaic Grid-Tied VSI Control Considering Parameter Uncertainty Based on DOB. , 2023, , .		0
3835	A sigmoid-based adaptive inertia control strategy for grid-forming inverter to enhance frequency stability. Frontiers in Energy Research, 0, 11, .	1.2	2
3836	Generic security-constrained inertia emulation scheme for VSI-based DC system using supercapacitor. International Journal of Electrical Power and Energy Systems, 2023, 150, 109078.	3.3	2
3837	A Comprehensive Review of GaN-Based Bi-directional On-Board Charger Topologies and Modulation Methods. Energies, 2023, 16, 3433.	1.6	4
3838	Optimal control for a photovoltaic integrated grid system using PSO and modified whale optimization to enhance power quality. Engineering Research Express, 2023, 5, 025001.	0.8	1
3839	Improved active and reactive power sharing on distributed generator using auto-correction droop control. Electric Power Systems Research, 2023, 220, 109358.	2.1	3

#	Article	IF	Citations
3840	Implementation and performance comparison of harmonic mitigation schemes for three-phase grid-connected voltage-source converter under grid voltage distortion: HiL and experimental validation. AEU - International Journal of Electronics and Communications, 2023, 161, 154552.	1.7	2
3841	A real-time digital twin approach on three-phase power converters applied to condition monitoring. Applied Energy, 2023, 334, 120606.	5.1	10
3842	Novel PV Power Hybrid Prediction Model Based on FL Co-Training Method. Electronics (Switzerland), 2023, 12, 730.	1.8	1
3843	Maximum current injection method for gridâ€forming inverters in an islanded microgrid subject to short circuits. IET Power Electronics, 2023, 16, 1028-1042.	1.5	0
3844	Processor-in-the-Loop Validation of an Observer Current-based Dead-Beat Control for a Single-Phase UPS Inverter. Engineering, Technology & Applied Science Research, 2023, 13, 10158-10164.	0.8	0
3845	A Novel Hybrid Optimization Controlled DSTATCOM Model for Power Quality Enhancement. Cybernetics and Systems, 0, , 1-27.	1.6	0
3846	Hybrid Energy Storage Systems for Renewable Energy Integration and Application. Advances in Civil and Industrial Engineering Book Series, 2023, , 174-198.	0.2	1
3847	The Definition of Power Grid Strength and Its Calculation Methods for Power Systems with High Proportion Nonsynchronous-Machine Sources. Energies, 2023, 16, 1842.	1.6	0
3848	Effects of PLL Frequency Limiters for Synchronization Stability of Grid Connected VSC and Strategy to Realize Global Stability. IEEE Transactions on Energy Conversion, 2023, , 1-12.	3.7	1
3849	Protection and Monitoring of Digital Energy Systems Operation. Power Systems, 2023, , 131-162.	0.3	0
3850	Optimum Setting Algorithm Based PI Controller Tuning for SRF-PLL Used Grid Synchronization System. Electric Power Components and Systems, 2023, 51, 538-554.	1.0	2
3851	Analysis, Synthesis and Implementation of a Direct Current Control Strategy for Three-Phase Grid Connected Converter. , 2022, , .		1
3852	Direct Grid Current Regulation for Grid-Connected PV Systems With Cascaded Multilevel Inverter. , 2022, , .		1
3853	Current Control Structures for Grid-Connected Photovoltaic System. , 2022, , .		1
3854	A universal model for power converters of battery energy storage systems utilizing the impedance-shaping concepts. International Journal of Electrical Power and Energy Systems, 2023, 149, 109055.	3.3	1
3855	Structure evolving and comparative analysis of grid-connected converter output filter. Electrical Engineering, 0, , .	1.2	0
3856	Wind Turbine Emulatorsâ€"A Review. Processes, 2023, 11, 747.	1.3	5
3857	Novel Isolated Multiple-Input, Multiple-Output Multidirectional Converter for Modern Low-Voltage DC Power Distribution Architectures. Sustainability, 2023, 15, 4582.	1.6	1

#	Article	IF	Citations
3858	Autonomous Control of Soft Open Point for Distribution Network Reliability Enhancement. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2023, 11, 3127-3137.	3.7	1
3859	Control Systems for Low-Inertia Power Grids: A Survey on Virtual Power Plants. IEEE Access, 2023, 11, 20560-20581.	2.6	10
3860	Transient Stability Analysis and Enhancement Techniques of Renewable-Rich Power Grids. Energies, 2023, 16, 2495.	1.6	2
3861	Power Electronics Technology for Large-Scale Renewable Energy Generation. Proceedings of the IEEE, 2023, 111, 335-355.	16.4	36
3862	Optimization of Efficiency using Loss minimization in Quadratic Boost Converter Multilevel Inverter fed Induction Motor System. , 2022, , .		0
3863	Single-Phase Transformerless PV Inverter with Reactive Power Compensation. , 2022, , .		0
3864	Feature Selection Fuzzy Neural Network Super-Twisting Harmonic Control. Mathematics, 2023, 11, 1495.	1.1	0
3865	A Review on Strategies for Hybrid DC/AC Microgrid Power Management. , 2023, , .		0
3866	Analysis of a Grid Tie Inverter for attaining the Maximum Power Factor and Minimum Total Harmonic Distortion. , 2023, , .		0
3867	Comprehensive Review of Recent Advancements in Battery Technology, Propulsion, Power Interfaces, and Vehicle Network Systems for Intelligent Autonomous and Connected Electric Vehicles. Energies, 2023, 16, 2925.	1.6	4
3868	Balancing the Active Power of a Railway Traction Power Substation with an sp-RPC. Energies, 2023, 16, 3074.	1.6	4
3869	Modelling and Simulation of Photovoltaic Systems Using MATLAB / Simulink. WSEAS Transactions on Power Systems, 2023, 18, 49-56.	0.2	0
3870	Universal Absolute Stability Criterion for Single-Phase Grid-Following Inverters Equipped With Orthogonal-Normalization-Based Grid Synchronizer. IEEE Transactions on Power Electronics, 2023, 38, 9090-9099.	5.4	1
3871	Multistep Model Predictive Control of Grid-Connected Inverter. , 2022, , .		0
3872	Grid Current Feed-forward based Transfer Scheme for Grid-tied Inverters with Anti-islanding Schemes. , 2022, , .		0
3873	Improved stationary reference frame for grid connected operation of single phase parallel inverters. , 2022, , .		1
3874	Analysis and Damping of Low-Frequency Oscillation for DC-Link Voltage-Synchronized VSCs. IEEE Transactions on Power Electronics, 2023, 38, 8177-8189.	5.4	5
3875	Equivalent Inertia and Dynamic Performance of Different VSC Control Strategies. , 2022, , .		0

#	Article	IF	Citations
3876	Highâ€gain nineâ€level switchedâ€capacitor multilevel inverter featuring less number of devices and leakage current. International Journal of Circuit Theory and Applications, 2023, 51, 3746-3773.	1.3	2
3877	LVRT and Reactive Power/Voltage Support of Utility-Scale PV Power Plants during Disturbance Conditions. Energies, 2023, 16, 3245.	1.6	3
3878	A Three-Phase Frequency-Fixed DSOGI-PLL With Low Computational Effort. IEEE Access, 2023, 11, 34932-34941.	2.6	2
3879	Hierarchical Control of an Islanded AC Micro Grid Using FS-MPC and an EMS. , 0, , .		1
3881	Data-Driven Modeling With Experimental Augmentation for the Modulation Strategy of the Dual-Active-Bridge Converter. IEEE Transactions on Industrial Electronics, 2024, 71, 2626-2637.	5.2	3
3882	Repetitive Regler fÃ¼r Shunt Active Power Filters â€“ Reglerauslegung, Implementierung und StabilitÃtsanalyse. Elektrotechnik Und Informationstechnik, 0, , .	0.7	0
3883	Progress in photocapacitors: A review. Functional Materials Letters, 2023, 16, .	0.7	1
3884	Improving voltage imbalance in inverterâ€based islanded microgrids during lineâ€toâ€line short circuits. IET Power Electronics, 2023, 16, 1889-1901.	1.5	1
3885	Adaptive inertia control of hybrid energy storage system based on Butterworth filter. Energy Reports, 2023, 9, 288-298.	2.5	0
3886	An Overview of Multilevel Inverters Lifetime Assessment for Grid-Connected Solar Photovoltaic Applications. Electronics (Switzerland), 2023, 12, 1944.	1.8	7
3889	Model Predictive Control for Grid-Connected Converters with Typhoon HIL. Transactions on Computer Systems and Networks, 2023, , 75-115.	0.5	0
3890	Small Signal Synchronous Stability Analysis of Grid-Connected VSC in Weak Grid. Lecture Notes in Electrical Engineering, 2023, , 547-559.	0.3	0
3898	Artificial Neural Network Based Double Stage Grid Connected Solar Photovoltaic Supply System. , 2023, , .		0
3900	An MPC based Power Management Method for Renewable Energy Hydrogen based DC Microgrids. , 2023, , .		0
3901	Asymmetrical Faults Correction Capability in a Power Insertion and Voltage Compensation System. , 2023, , .		0
3902	A High-Robust Control Scheme for the DAB-based PPP Energy Storage System. , 2023, , .		0
3903	Circulating Current Reduction of Back-to-Back MMC with Advanced Grid-Support Functionalities for Medium-Voltage Applications. , 2023, , .		0
3904	Analysis of MLI based FPGA using hybrid controller techniques for SHAF. AIP Conference Proceedings, 2023, , .	0.3	0

#	Article	IF	Citations
3913	Passivity-Based Stability Analysis for Current Control With Active Damping of Three-phase Grid Connected- Inverter. , 2023, , .		0
3919	Implementation of Various DC-AC Inverter Control Techniques in Photovoltaic System with LCL Filter. , 2023, , .		0
3922	Intelligent Control Design for Grid-Connected Voltage Source Power Converters Based on Data-Driven Approach for DC Microgrid Applications. , 2023, , .		2
3923	Control of Inverters for Grid-connected Operation Based on Phase Angle Droop. , 2022, , .		0
3924	A Linearization Based Model Equivalent Method for Distributed Photovoltaic Generation Clusters. , 2022, , .		0
3925	Plant Control Parameter Identification of Renewable Energy Station Based on Improved Least Square Method. , 2022, , .		0
3928	PV FED 15 Level Cascaded Multilevel Inverter For Enhancement Of Power By Using ANFIS Controller. , 2022, , .		0
3935	Frequency-Coupled Impedance Model of Grid-forming Converters. , 2023, , .		0
3936	Electric Vehicle Charging Station Design for V2G and G2V Operation. , 2023, , .		0
3937	Real-Time Estimation of Parameters in Inductive-Resistive Power Networks Using Second-Order Extended Kalman Filter. , 2023, , .		0
3938	EMT Simulation of V2G Application with High Penetration of Variable Renewable Resources in Distribution Network. , 2023, , .		0
3939	An Adaptive Virtual Synchronous Generator based Model Predictive Control with Enhanced Frequency Support Capability in Micro-Energy Systems. , 2023, , .		0
3940	Design and Analysis of Voltage Control for Islanded DC Microgrids Based on a Fuzzy-PI Controller. , 2023, , .		4
3942	Distributed Optimal Coordination of Microgrid Systems over Unbalanced Digraph. , 2023, , .		0
3943	Stability Impact of Frequency Measurement Accuracy on Decoupling Control of GCI under Weak Grids. , 2023, , .		0
3949	Inverter Based Resources Integration Through A Bridgeless Boost Converter for DC-Microgrid Applications. , 2023, , .		0
3955	A Machine Learning Approach for Fault Detection and Diagnosis in Four-legged Inverters. , 2023, , .		1
3956	Triple-Loop Control Configuration for Grid-Connected LCL-Filtered Inverters Based on Time-Domain Design. , 2023, , .		0

#	Article	IF	Citations
3958	Attenuation of Voltage Distortion Effects on a Three-Phase Grid-Connected Converter. , 2023, , .		0
3962	Performance Analysis of Higher Order Generalized Integrator based Phase Locked Loops for Grid Interactive Inverter. , 2023, , .		1
3963	Adaptive Control of a Voltage Source Converter Based on the Third-Order Nonlinear Model. , 2023, , .		0
3965	A High-Robust Control Scheme for the Dual-Active-Bridge-Based Energy Storage Unit. Lecture Notes in Electrical Engineering, 2023, , 1281-1291.	0.3	0
3968	A Full-Bridge Boost LCL-Type DC/AC/DC Converter. , 2023, , .		0
3969	The Virtual Admittance Control of Sending End Converter for Offshore Wind Farm Integration. , 2023, , .		0
3970	Consideration of Control-Loop Interaction in Transient Stability of Grid-Following Inverters using Bandwidth Separation Method. , 2023, , .		0
3971	Absolute Stability Improvement of Single-Phase Grid-Connected Inverters with Open-Loop Synchronization Based on Grid Current Feedforward. , 2023, , .		0
3973	Grid Synchronization for Distributed Generations. , 2023, , .		0
3974	A Power Decoupling Strategy for Three-Phase Inverter Based on Mid-Leg Fundamental-Frequency Common-Mode Voltage Injection Under Unbalanced Conditions. Lecture Notes in Electrical Engineering, 2023, , 713-720.	0.3	0
3977	A new MPPT algorithm for photovoltaic system based on hybrid Dingo optimizer and IC algorithm. AIP Conference Proceedings, 2023, , .	0.3	0
3981	The Effect of Photovoltaic Plant Integration on Power Flow Based on The Newton Raphson Method on The Krueng Raya Feeder. , 2023, , .		0
3982	Modeling of a Separately Excited DC Motor Driven Wind Turbine Emulator. , 2023, , .		0
3983	Multi-Frequency Damping Adaptive Control Strategy for Active Dampers Based on MultiHarmonic Detection. , 2023, , .		0
3985	Resonance Damping in Active Power Decoupled Single-Phase Grid-tied Differential Buck Inverter. , 2023, , .		0
3986	Model-Free Adaptive Control Algorithm for VSG-Controlled Inverter-Interfaced Distribution Generators. , 2023, , .		0
3988	Bidirectional Energy Transfer for Heterogeneous Modular Batteries in Electric Vehicle Applications. , 2023, , .		1
3989	An Optimizing Method of Complex PI Controller for Permanent Magnet Synchronous Motor in Magnetic Saturation. , 2023, , .		0

#	Article	IF	Citations
3990	A comparative study of different PLL techniques for synchronization of grid-connected converters under unbalanced and distorted grid conditions. , 2023, , .		0
3991	Parameter optimization method of grid voltage proportional feedforward strategy based on second-order band-pass filter. , 2023, , .		0
3992	Design for Reliability of Power Electronics Systems. , 2024, , 1387-1402.		0
3993	Power Grid Resilience. , 2024, , 1015-1033.		0
3994	Power Electronics Applications in Smart Grid. , 2024, , 993-1013.		0
3996	Research and design of EtherCAT master station for distributed energy systems in industrial parks. , 2023, , .		0
4001	Hybridization of Energy Storage Units for Energy Transition Applications: A Focus on Control and Coordination Approaches. , 2023, , .		0
4003	Transient Stability Improvement of Grid-Forming Converters Through Voltage Amplitude Regulation. , 2023, , .		0
4004	Study on the Variations in Precursor Parameters of Insulated Gate Bipolar Transistors and SiC MOSFETs for Fault Diagnosis. , 2023, , .		0
4006	Fixed-Time Active Disturbance Rejection-Based Sliding Mode Control for NPC Converters. , 2023, , .		0
4007	Passivity-Based Design of Capacitor Current Feedback Active Damping for Inverter-Side Current Controlled LCL - Type GCIs. , 2023, , .		0
4008	A Novel Variable Time Delay FLL Based Estimation of Positive and Negative Sequence Components of Grid. , 2023, , .		0
4009	Terminal Sliding Modes-Based PLLs for Three-Phase Grid-Connected Inverters. , 2023, , .		0
4010	Hysteresis Current Control of Single-Phase Single-Stage Grid-Connected Inverter with Buck-Boost Operation Capability. , 2023, , .		0
4013	A Low Cost High-Frequency Resonant DC-DC Converter for Renewable Energy Integration with Rural Microgrids. , 2023, , .		0
4016	Cooperative Microgrids: Technical Feasibility of the PREB's Microgrid Rule. , 2023, , .		0
4019	PHIL-based Impedance Measurement for Electromagnetic Stability Analysis of Grid-following Converters. , 2023, , .		0
4024	Stability Estimation and Enhanced Control of BDFIG-Driven Wind Turbines under Weak Grid. , 2023, , .		0

#	Article	IF	Citations
4025	High-Accuracy Resolver-to-Digital Conversion Based on Active Disturbance Rejection PLL. , 2023, , .		0
4026	Model-Free Predictive Current Control for Three-Phase AC/DC Inverters with LCL Filter Based on Hybrid SVM. , 2023, , .		0
4027	Control Scheme for Single-Phase Grid-Connected Inverter Based on Modified Odd-Harmonic Repetitive Control. , 2023, , .		0
4031	A 5G NB-IoT Framework for Secure Transmission and Intelligent Demand-Side Data Analysis in Smart Grids. , 2023, , .		0
4032	An Overview of Frequency and Power Changes Quantifition in a Microgrid; Multiply Distribution Generators. , 2023, , .		0
4033	Research on Grid-Connected Technology of Inverter Based on Phase Lock. , 2023, , .		0
4037	Event-Based Pinning Synchronization in Delayed Dynamical Networks With Stochastic Noises. , 2023, , .		0
4038	A Voltage Sensor-Less and PLL-Less Inner-Loop Control Method for Grid-Tied Inverter-Based Resources. , 2023, , .		4
4039	Controllable Rectification Technology with Adaptive Parameter Recognition Algorithm. , 2023, , .		0
4040	Modified Virtual Oscillator based Operation of Grid Forming Converters with Single Voltage Sensor. , 2023, , .		0
4041	Multimode Control of HF Link Universal Minimal Converters â€“ Part II: Multiphase AC Systems. , 2023, , .		1
4042	Operation and Control of a Back to Back Modular Multilevel Converter System for Grid Forming Application with Advanced Grid Support Functionalities. , 2023, , .		0
4044	Operational Flexibility of Grid-Connected Power Converters for Renewable Energy Integration. , 2023, , .		0
4045	Comparative Performance Analysis of Order based Generalized Integrator type Phase Locked Loops for a polluted Grid. , 2023, , .		0
4051	Modelling & Implementation of Single Switch Based High Gain DC-DC Converter for PV and Fuel Cell Applications. , 2023, , .		0
4052	Performance Enhancement of a Battery and Grid-Tied Robust Dual-Stage Modular Power Converter. , 2023, , .		0
4053	EV Battery Charging System via Reconfigurable Boost Converter with Solar PV and Grid. , 2023, , .		0
4054	Revisiting Numerical Integration Methods for Digital Implementation in Power Electronics Applications. , 2023, , .		0

#	Article	IF	Citations
4057	Synchronous of Multiagent Systems over Finite Fields via Event-Triggered Control. , 2023, , .		0
4058	Stability Analysis of Circulating Current in Multi-Parallel Grid-Connected Inverter System. , 2023, , .		0
4059	Grid-Connected Current Double Loop Feedback Suppression Strategy of Parallel Inverter in the Weak Grid. , 2023, , .		0
4060	State Prediction of Small Signal Synchronous Stability of Converter Interfaced Generation System Based on Koopman Operator and Time Delay Embedding. , 2023, , .		0
4061	A Strong-Grid-Friendly Voltage Control Method of Grid-Forming Inverters. , 2023, , .		0
4062	Complex Transfer Function-Based Stability Criterion for Grid-Connected Converters. , 2023, , .		0
4064	Flexible Voltage Support Control of Three-Phase Four-Leg Inverter with Active and Reactive Power Oscillation Optimization Under Typical Double-Line-to-Ground Faults. , 2023, , .		0
4065	Performance Analysis of Homogeneous and Heterogeneous Microgrid based on Droop and VSG-Based Control. , 2023, , .		0
4066	Harmonic Damping in Wind Farm Power Lines Using Shunt Active Filter Based on Voltage Detection. , 2023, , .		0
4067	Performance of Parametric Methods for Online Grid-Impedance Estimation Applied to PV Systems. , 2023, , .		0
4068	Analysis of Active Damping Stability for LCL Grid-Tied Inverter in a Multiloop Current Control Strategy. , 2023, , .		0
4069	A Unified mode transition between Grid-tied and Islanded modes in a RBVSG using Uninterrupted Switching Scheme. , 2023, , .		0
4070	Small-Signal Modelling and Dynamic Performance Analysis of Grid-Connected MVDC-Active Distributed Energy Network interconnect to AC grid*. , 2023, , .		0
4071	Applicability of SMES to Electric and Hydrogen Hybrid Energy Storage System for Large-Capacity Renewable Energy Generation. , 2023, , .		0
4072	Fuel Cell System Operation as a Static Synchronous Series Compensator for Implementing Power Flow Control. , 2023, , .		0
4074	ACTIVE Disturbance Rejection Control of LCL Grid-Connected Inverter Based on Resonance Extended State Observer. , 2023, , .		0
4075	Modified Controller for Smooth Transition of Grid-Connected and Standalone Modes in AC Microgrid. , 2023, , .		0
4076	Hybrid Electric Charging Station with Energy Management under a Weak Grid Scenario. , 2023, , .		0

#	Article	IF	Citations
4079	A Novel Wide-Input-Range Quasi-Resonant Forward-Flyback DC/DC Converter. Lecture Notes in Electrical Engineering, 2024, , 335-344.	0.3	0