Vassilios G Agelidis

List of Publications by Year
in descending order

415 papers	17,900 citations	12330 69 h-index	19749 117 g-index
416 all docs	416 docs citations	416 times ranked	10629 citing authors

#	Article	IF	Citations
1	A Method Without Stability Issue for Robust Estimation of Three-Phase Grid Frequency. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2022, 3, 854-859.	3.9	4
2	Fast Estimation of Phase Angle for Three-Phase Voltage Systems Under Distorted Conditions. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 2819-2828.	5.4	4
3	Application of an adaptive Bayesian-based model for probabilistic and deterministic PV forecasting. IET Renewable Power Generation, 2021, 15, 2699-2714.	3.1	7
4	High-Order Harmonic Resonances in Traction Power Supplies: A Review Based on Railway Operational Data, Measurements, and Experience. IEEE Transactions on Power Electronics, 2020, 35, 2501-2518.	7.9	55
5	Grid-Connected Photovoltaic Power Plant Without Phase Angle Synchronization Able to Address Fault-Ride-Through Capability. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 3467-3476.	5.4	8
6	Wind-Energy-Powered Electric Vehicle Charging Stations: Resource Availability Data Analysis. Applied Sciences (Switzerland), 2020, 10, 5654.	2.5	15
7	Power Quality in Microgrids Including Supraharmonics: Issues, Standards, and Mitigations. IEEE Access, 2020, 8, 127104-127122.	4.2	95
8	Ripple manipulator towards REG-integrated EV charging infrastructure system. , 2020, , .		0
9	State-of-Charge Estimation for Li-Ion Batteries: A More Accurate Hybrid Approach. IEEE Transactions on Energy Conversion, 2019, 34, 109-119.	5.2	89
10	Experimental study of PV strings affected by cracks. Journal of Engineering, 2019, 2019, 5124-5128.	1.1	6
11	Robust estimation of voltage harmonics in a single-phase system. IET Science, Measurement and Technology, 2019, 13, 662-670.	1.6	2
12	Three-Phase PLL for Grid-Connected Power Converters Under Both Amplitude and Phase Unbalanced Conditions. IEEE Transactions on Industrial Electronics, 2019, 66, 8881-8891.	7.9	48
13	Experimental study of static and dynamic behaviours of cracked PV panels. IET Renewable Power Generation, 2019, 13, 3002-3008.	3.1	4
14	Fast and accurate frequency estimation in distorted grids using a three-sample based algorithm. IET Generation, Transmission and Distribution, 2019, 13, 4242-4248.	2.5	12
15	A market-oriented wind power dispatch strategy using adaptive price thresholds and battery energy storage. Wind Energy, 2018, 21, 242-254.	4.2	16
16	On maximizing profit of wind-battery supported power station based on wind power and energy price forecasting. Applied Energy, 2018, 211, 764-773.	10.1	69
17	Network Topology Independent Multi-Agent Dynamic Optimal Power Flow for Microgrids With Distributed Energy Storage Systems. IEEE Transactions on Smart Grid, 2018, 9, 3419-3429.	9.0	36
18	Control Strategies for Microgrids With Distributed Energy Storage Systems: An Overview. IEEE Transactions on Smart Grid, 2018, 9, 3652-3666.	9.0	307

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19	Single-Phase Boost Inverter-Based Electric Vehicle Charger With Integrated Vehicle to Grid Reactive Power Compensation. IEEE Transactions on Power Electronics, 2018, 33, 3462-3471.	7.9	78
20	Model Predictive Control for Distributed Microgrid Battery Energy Storage Systems. IEEE Transactions on Control Systems Technology, 2018, 26, 1107-1114.	5.2	114
21	Multi-Agent Sliding Mode Control for State of Charge Balancing Between Battery Energy Storage Systems Distributed in a DC Microgrid. IEEE Transactions on Smart Grid, 2018, 9, 4735-4743.	9.0	153
22	Interactions Between Indirect DC-Voltage Estimation and Circulating Current Controllers of MMC-Based HVDC Transmission Systems. IEEE Transactions on Power Systems, 2018, 33, 829-838.	6.5	26
23	Reliability Worth Analysis of Distribution Systems Using Cascade Correlation Neural Networks. IEEE Transactions on Power Systems, 2018, 33, 412-420.	6.5	21
24	Review of FACTS technologies and applications for power quality in smart grids with renewable energy systems. Renewable and Sustainable Energy Reviews, 2018, 82, 502-514.	16.4	224
25	Design of Power Peak Shaving Controller for Single-Phase AC Railway Systems. , 2018, , .		2
26	Reconfigurable Converter with Multiple-Voltage Multiple-Power for E-Mobility Charging. , 2018, , .		1
27	Considerations for Integrating PMU Capabilities Into Grid-Connected Power Electronics Converters. , 2018, , .		2
28	Lumped Parameter Model of a 2x25 kV Railway System Based on Root-Matching Method. , 2018, , .		2
29	Elimination of Low-Frequency Ripples and Regulation of Neutral-Point Voltage in Stacked Multicell Converters. IEEE Transactions on Power Electronics, 2017, 32, 164-175.	7.9	31
30	A Fixed-Frequency Sliding Mode Controller for a Boost-Inverter-Based Battery-Supercapacitor Hybrid Energy Storage System. IEEE Transactions on Power Electronics, 2017, 32, 668-680.	7.9	93
31	Optimal Robust Unit Commitment of CHP Plants in Electricity Markets Using Information Gap Decision Theory. IEEE Transactions on Smart Grid, 2017, 8, 2296-2304.	9.0	94
32	A Demodulation-Based Technique for Robust Estimation of Single-Phase Grid Voltage Fundamental Parameters. IEEE Transactions on Industrial Informatics, 2017, 13, 166-175.	11.3	26
33	Selective Harmonic Elimination Model Predictive Control for Multilevel Power Converters. IEEE Transactions on Power Electronics, 2017, 32, 2416-2426.	7.9	111
34	Supercapacitor Sizing Method for Energy-Controlled Filter-Based Hybrid Energy Storage Systems. IEEE Transactions on Power Electronics, 2017, 32, 1626-1637.	7.9	101
35	Common Mode Noise Analysis for Cascaded Boost Converter With Silicon Carbide Devices. IEEE Transactions on Power Electronics, 2017, 32, 1917-1926.	7.9	57
36	Low-Capacitance Cascaded H-Bridge Multilevel StatCom. IEEE Transactions on Power Electronics, 2017, 32, 1744-1754.	7.9	86

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37	A Load-Sharing Strategy for the State of Charge Balancing Between the Battery Modules of Integrated Reconfigurable Converter. IEEE Transactions on Power Electronics, 2017, 32, 4056-4063.	7.9	14
38	A sufficient stochastic framework forÂoptimal operation of micro-grids considering high penetration of renewable energy sources and electric vehicles. Journal of Intelligent and Fuzzy Systems, 2017, 32, 373-387.	1.4	11
39	Comparison of zeroâ€sequence injection methods in cascaded Hâ€bridge multilevel converters for largeâ€scale photovoltaic integration. IET Renewable Power Generation, 2017, 11, 603-613.	3.1	62
40	Capacitor Voltages Measurement and Balancing in Flying Capacitor Multilevel Converters Utilizing a Single Voltage Sensor. IEEE Transactions on Power Electronics, 2017, 32, 8115-8123.	7.9	40
41	Delta-Connected Cascaded H-Bridge Multilevel Converters for Large-Scale Photovoltaic Grid Integration. IEEE Transactions on Industrial Electronics, 2017, 64, 8877-8886.	7.9	72
42	Windowed SHE-PWM of Interleaved Four-Quadrant Converters for Resonance Suppression in Traction Power Supply Systems. IEEE Transactions on Power Electronics, 2017, 32, 7870-7881.	7.9	35
43	Passive Reactor Compensated Cascaded H-Bridge Multilevel LC-StatCom. IEEE Transactions on Power Electronics, 2017, 32, 8338-8348.	7.9	35
44	Decentralised control method for DC microgrids with improved current sharing accuracy. IET Generation, Transmission and Distribution, 2017, 11, 696-706.	2.5	60
45	Power Flow Management of Isolated Multiport Converter for More Electric Aircraft. IEEE Transactions on Power Electronics, 2017, 32, 5850-5861.	7.9	74
46	Predictive Control of Cascaded H-Bridge Converters Under Unbalanced Power Generation. IEEE Transactions on Industrial Electronics, 2017, 64, 4-13.	7.9	59
47	On Thermal Impact of Chaotic Frequency Modulation SPWM Techniques. IEEE Transactions on Industrial Electronics, 2017, 64, 2032-2043.	7.9	24
48	Reliability Optimization of Automated Distribution Networks With Probability Customer Interruption Cost Model in the Presence of DG Units. IEEE Transactions on Smart Grid, 2017, 8, 305-315.	9.0	71
49	Cascade-Free Model Predictive Control for Single-Phase Grid-Connected Power Converters. IEEE Transactions on Industrial Electronics, 2017, 64, 285-294.	7.9	66
50	Flexible prototype of modular multilevel converters for experimental verification of DC transmission and multiterminal systems. , 2017, , .		8
51	A Review of Power Electronics for Grid Connection of Utility-Scale Battery Energy Storage Systems. IEEE Transactions on Sustainable Energy, 2016, 7, 1778-1790.	8.8	271
52	Circulating current control for parallel interleaved VSCs connected in whiffletree configuration. , 2016, , .		1
53	Abnormal overheating detectability analysis based on cross Gramian for a supercapacitors string. , 2016, , .		1
54	Dynamic optimal power flow for DC microgrids with distributed battery energy storage systems. , 2016, , .		19

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55	Comparison of bipolar sub-modules for the alternate arm converter. , 2016, , .		5
56	Asymmetric overlap and hysteresis current control of zero-current switched alternate arm converter. , 2016, , .		8
57	Effect of eliminating rotor iron on a mega-watt halbach permanent magnet synchronous generator for wind turbine applications. , 2016, , .		1
58	An algorithm for reduction of extracted power from photovoltaic strings in grid-tied photovoltaic power plants during voltage sags. , 2016, , .		10
59	DC side ripple current reduction method for three-phase boost inverter with mismatched output capacitors. , 2016, , .		0
60	Asynchronous AC systems interconnection with DC-bus capacitor-less VSC back-to-back topology. , 2016, , .		0
61	A solution for the gain discontinuity issue of the non-inverting buck-boost converter. , 2016, , .		3
62	Cooperative neuro-evolutionary recurrent neural networks for solar power prediction. , 2016, , .		5
63	Fault ride-through performance evaluation of an interleaved grid-connected converter employing low switching frequency. , 2016, , .		0
64	Hybrid energy storage for large PV systems using bidirectional high-gain converters. , 2016, , .		1
65	Performance evaluation of interleaved high€gain converter configurations. IET Power Electronics, 2016, 9, 1852-1861.	2.1	14
66	Accurate Estimation of Single-Phase Grid Voltage Fundamental Amplitude and Frequency by Using a Frequency Adaptive Linear Kalman Filter. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2016, 4, 1226-1235.	5.4	51
67	Ultra€fast MHz range driving circuit for SiC MOSFET using frequency multiplier with eGaN FET. IET Power Electronics, 2016, 9, 2085-2094.	2.1	16
68	Model Predictive Control for Single-Phase NPC Converters Based on Optimal Switching Sequences. IEEE Transactions on Industrial Electronics, 2016, 63, 7533-7541.	7.9	130
69	Implementation of 3D lookup tables in PLECS for modeling photovoltaic modules. , 2016, , .		6
70	Optimization of a MW Halbach PMSG for wind turbine applications. , 2016, , .		5
71	A method for minimizing energy cost in a microgrid with hybrid renewable power generation using controlled battery energy storage. , 2016, , .		4
72	Integrated Reconfigurable Configuration for Battery/Ultracapacitor Hybrid Energy Storage Systems. IEEE Transactions on Energy Conversion, 2016, 31, 1583-1590.	5.2	30

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73	Distributed sliding mode control for multi-module battery energy storage system state of charge balancing. , 2016, , .		2
74	Adaptive Notch filter based active damping for power converters using LCL filters. , 2016, , .		8
75	Solar power forecasting using weather type clustering and ensembles of neural networks. , 2016, , .		23
76	An AC reactive power compensator based on a nine switch converter. , 2016, , .		0
77	Zero‐current‐switching bidirectional interleaved switched‐capacitor DC–DC converter: analysis, design and implementation. IET Power Electronics, 2016, 9, 1074-1082.	2.1	16
78	Univariate and multivariate methods for very short-term solar photovoltaic power forecasting. Energy Conversion and Management, 2016, 121, 380-390.	9.2	163
79	Low-frequency voltage ripples in the flying capacitors of the nested neutral-point-clamped converter. , 2016, , .		8
80	Minimizing the energy cost for microgrids integrated with renewable energy resources and conventional generation using controlled battery energy storage. Renewable Energy, 2016, 97, 646-655.	8.9	76
81	Multiple-Model-Based Overheating Detection in a Supercapacitors String. IEEE Transactions on Energy Conversion, 2016, 31, 1413-1422.	5.2	3
82	Power Balance of Cascaded H-Bridge Multilevel Converters for Large-Scale Photovoltaic Integration. IEEE Transactions on Power Electronics, 2016, 31, 292-303.	7.9	259
83	An Active Voltage-Balancing Method Based on Phase-Shifted PWM for Stacked Multicell Converters. IEEE Transactions on Power Electronics, 2016, 31, 1921-1930.	7.9	39
84	Integrated Reconfigurable Converter Topology for High-Voltage Battery Systems. IEEE Transactions on Power Electronics, 2016, 31, 1968-1979.	7.9	60
85	Distributed Control for State-of-Charge Balancing Between the Modules of a Reconfigurable Battery Energy Storage System. IEEE Transactions on Power Electronics, 2016, 31, 7986-7995.	7.9	90
86	Heuristic Model Predictive Modulation for High-Power Cascaded Multi-Level Converters. IEEE Transactions on Industrial Electronics, 2016, , 1-1.	7.9	21
87	A DC-Side Sensorless Cascaded H-Bridge Multilevel Converter-Based Photovoltaic System. IEEE Transactions on Industrial Electronics, 2016, 63, 4233-4241.	7.9	75
88	Interleaved Operation of Three-Level Neutral Point Clamped Converter Legs and Reduction of Circulating Currents Under SHE-PWM. IEEE Transactions on Industrial Electronics, 2016, 63, 3323-3332.	7.9	30
89	A Constrained Monotonic Charging/Discharging Strategy for Optimal Capacity of Battery Energy Storage Supporting Wind Farms. IEEE Transactions on Sustainable Energy, 2016, 7, 1224-1231.	8.8	67
90	On Improving Phase-Shifted PWM for Flying Capacitor Multilevel Converters. IEEE Transactions on Power Electronics, 2016, 31, 5384-5388.	7.9	44

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91	Determining potential stability enhancements of flexible AC transmission system devices using corrected transient energy function. IET Generation, Transmission and Distribution, 2016, 10, 470-476.	2.5	15
92	Technology Readiness Assessment of Model Predictive Control in Medium- and High-VoltageÂPower Electronics. IEEE Transactions on Industrial Electronics, 2016, 63, 5807-5815.	7.9	54
93	Controllers for eliminating the ac components in the circulating current of modular multilevel converters. IET Power Electronics, 2016, 9, 1-8.	2.1	33
94	Resonant Versus Conventional Controllers in Grid-Connected Photovoltaic Power Plants Under Unbalanced Grid Voltages. IEEE Transactions on Sustainable Energy, 2016, 7, 1124-1132.	8.8	73
95	Control of Circulating Currents in Modular Multilevel Converters Through Redundant Voltage Levels. IEEE Transactions on Power Electronics, 2016, 31, 7761-7769.	7.9	56
96	Optimal scheduling of renewable micro-grids considering plug-in hybrid electric vehicle charging demand. Energy, 2016, 100, 285-297.	8.8	142
97	Cascaded H-Bridge Multilevel PV Topology for Alleviation of Per-Phase Power Imbalances and Reduction of Second Harmonic Voltage Ripple. IEEE Transactions on Power Electronics, 2016, 31, 5574-5586.	7.9	81
98	Cooperative Multi-Agent Control of Heterogeneous Storage Devices Distributed in a DC Microgrid. IEEE Transactions on Power Systems, 2016, 31, 2974-2986.	6.5	133
99	Power Management for Improved Dispatch of Utility-Scale PV Plants. IEEE Transactions on Power Systems, 2016, 31, 2297-2306.	6.5	40
100	An Input Current Feedback Method to Mitigate the DC-Side Low-Frequency Ripple Current in a Single-Phase Boost Inverter. IEEE Transactions on Power Electronics, 2016, 31, 4594-4603.	7.9	66
101	Decoupled Control System for Cascaded H-Bridge Multilevel Converter Based STATCOM. IEEE Transactions on Industrial Electronics, 2016, 63, 322-331.	7.9	108
102	On Exploring Potential Reliability Gains Under Islanding Operation of Distributed Generation. IEEE Transactions on Smart Grid, 2016, 7, 2166-2174.	9.0	12
103	Switching Frequency Analysis of Staircase-Modulated Modular Multilevel Converters and Equivalent PWM Techniques. IEEE Transactions on Power Delivery, 2016, 31, 28-36.	4.3	60
104	Power Balance Optimization of Cascaded H-Bridge Multilevel Converters for Large-Scale Photovoltaic Integration. IEEE Transactions on Power Electronics, 2016, 31, 1108-1120.	7.9	152
105	Modulation Strategy for Multiphase Neutral-Point-Clamped Converters. IEEE Transactions on Power Electronics, 2016, 31, 928-941.	7.9	99
106	Unified Distributed Control for DC Microgrid Operating Modes. IEEE Transactions on Power Systems, 2016, 31, 802-812.	6.5	157
107	A Rule-Based Controller to Mitigate DC-Side Second-Order Harmonic Current in a Single-Phase Boost Inverter. IEEE Transactions on Power Electronics, 2016, 31, 1665-1679.	7.9	47
108	A new multiple converter topology for battery/ultracapacitor hybrid energy system. , 2015, , .		3

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109	Closed-loop SHE-PWM technique for power converters through Model Predictive Control. , 2015, , .		10
110	Battery-supercapacitor hybrid energy storage system with reduced low frequency input current ripple. , 2015, , .		12
111	A Modified Voltage Balancing Algorithm for the Modular Multilevel Converter: Evaluation for Staircase and Phase-Disposition PWM. IEEE Transactions on Power Electronics, 2015, 30, 4119-4127.	7.9	115
112	Considerations of Sectionalizing Switches in Distribution Networks With Distributed Generation. IEEE Transactions on Power Delivery, 2015, 30, 1401-1409.	4.3	67
113	Operation of Cascaded H-Bridge Multilevel Converters for Large-Scale Photovoltaic Power Plants Under Bridge Failures. IEEE Transactions on Industrial Electronics, 2015, 62, 7228-7236.	7.9	137
114	Correlation and instance based feature selection for electricity load forecasting. Knowledge-Based Systems, 2015, 82, 29-40.	7.1	173
115	Discontinuous modulation of modular multilevel converters without the need for extra submodules. , 2015, , .		3
116	Capacitance minimisation & alleviation of per-phase power imbalances in cascaded PV converters. , 2015, , .		1
117	Design and implementation of a 200kHz single-phase boost-inverter using silicon carbide semiconductors. , 2015, , .		4
118	Dispatch performance analysis of PV power plants using various energy storage capacities. , 2015, , .		1
119	Integration of model-predictive control in medium and high-voltage power electronics products: An industrial perspective on gaps and progress required. , 2015, , .		4
120	Optimization of a power system consisting of wind and solar power plants and battery energy storage for optimal matching of supply and demand. , 2015, , .		2
121	Short-term power forecasting for photovoltaic generation based on wavelet neural network and residual correction of Markov chain. , 2015, , .		3
122	Reconfigurable battery energy storage system for utility-scale applications. , 2015, , .		6
123	Predictive Control algorithm to achieve power balance of Cascaded H-Bridge converters. , 2015, , .		4
124	On Estimating Instantaneous Temperature of a Supercapacitor String Using an Observer Based on Experimentally Validated Lumped Thermal Model. IEEE Transactions on Energy Conversion, 2015, 30, 1438-1448.	5.2	17
125	A phase shedding technique for PV system based on interleaved boost converter. , 2015, , .		5
126	An adaptive control algorithm for wind power dispatch using a battery energy storage system. , 2015, , .		3

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127	Circulating current controller for parallel interleaved converters using PR controllers. , 2015, , .		8
128	Design of energy dispatch strategy of active distribution network using chance-constrained programming. , 2015, , .		6
129	Heuristic model predictive modulation in high power multi-level converters. , 2015, , .		2
130	Utilising redundant voltage levels for circulating current control in modular multilevel converters. , 2015, , .		3
131	Delta-connected cascaded H-bridge multilevel photovoltaic converters. , 2015, , .		9
132	Model predictive control of cascaded H-bridge inverters based on a fast-optimization algorithm. , 2015, , .		14
133	Single- and Two-Stage Inverter-Based Grid-Connected Photovoltaic Power Plants With Ride-Through Capability Under Grid Faults. IEEE Transactions on Sustainable Energy, 2015, 6, 1150-1159.	8.8	160
134	A Single-Objective Predictive Control Method for a Multivariable Single-Phase Three-Level NPC Converter-Based Active Power Filter. IEEE Transactions on Industrial Electronics, 2015, 62, 4598-4607.	7.9	122
135	Circulating Current Injection Methods Based on Instantaneous Information for the Modular Multilevel Converter. IEEE Transactions on Industrial Electronics, 2015, 62, 777-788.	7.9	331
136	Voltage-Balancing Method for Stacked Multicell Converters Using Phase-Disposition PWM. IEEE Transactions on Industrial Electronics, 2015, 62, 4001-4010.	7.9	42
137	Voltage Security Considerations in Optimal Operation of BEVs/PHEVs Integrated Microgrids. IEEE Transactions on Smart Grid, 2015, 6, 1575-1587.	9.0	56
138	Single-Phase Grid Voltage Frequency Estimation Using Teager Energy Operator-Based Technique. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2015, 3, 1218-1227.	5.4	39
139	Robust technique for accurate estimation of single€phase grid voltage fundamental frequency and amplitude. IET Generation, Transmission and Distribution, 2015, 9, 183-192.	2.5	15
140	Multi-objective economic emission dispatch considering combined heat and power by normal boundary intersection method. Electric Power Systems Research, 2015, 129, 32-43.	3.6	52
141	Reduced-Capacitance Thin-Film H-Bridge Multilevel STATCOM Control Utilizing an Analytic Filtering Scheme. IEEE Transactions on Industrial Electronics, 2015, 62, 6457-6468.	7.9	60
142	Multiple model estimator based detection of abnormal cell overheating in a Li-ion battery string with minimum number of temperature sensors. Journal of Power Sources, 2015, 273, 1171-1181.	7.8	21
143	Comment on â€œA hybrid multi-objective cultural algorithm for short-term environmental/economic hydrothermal schedulingâ€•by Lu et al. [Energy Convers. Manage. 52 (2011) 2121â€"2134]. Energy Conversion and Management, 2015, 99, 414-417.	9.2	0
144	Individual Phase Current Control With the Capability to Avoid Overvoltage in Grid-Connected Photovoltaic Power Plants Under Unbalanced Voltage Sags. IEEE Transactions on Power Electronics, 2015, 30, 5346-5351.	7.9	27

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145	Single-Carrier Phase-Disposition PWM Implementation for Multilevel Flying Capacitor Converters. IEEE Transactions on Power Electronics, 2015, 30, 5376-5380.	7.9	53
146	Index-Based Assessment of Voltage Rise and Reverse Power Flow Phenomena in a Distribution Feeder Under High PV Penetration. IEEE Journal of Photovoltaics, 2015, 5, 1158-1168.	2.5	79
147	On Reducing Power Losses in Stack Multicell Converters with Optimal Voltage Balancing Method. IEEE Transactions on Power Electronics, 2015, 30, 4682-4695.	7.9	13
148	Performance of Medium-Voltage DC-Bus PV System Architecture Utilizing High-Gain DC–DC Converter. IEEE Transactions on Sustainable Energy, 2015, 6, 464-473.	8.8	85
149	Forecasting solar power generated by grid connected PV systems using ensembles of neural networks. , 2015, , .		40
150	Practical implementation of a silicon carbide–based 300 kHz, 1.2 kW hard–switching boost–converter and comparative thermal performance evaluation. IET Power Electronics, 2015, 8, 333-341.	2.1	14
151	Optimal capacity design for hybrid energy storage system supporting dispatch of large-scale photovoltaic power plant. Journal of Energy Storage, 2015, 3, 25-35.	8.1	30
152	Comparison between grid side and inverter side current control for parallel interleaved grid connected converters. , 2015, , .		2
153	1-MHz isolated bipolar half-bridge GaN gate driver for SiC MOSFETs. , 2015, , .		6
154	Defining the exact number of sub-module transitions in fundamental frequency modulated modular multilevel converters. , 2015, , .		3
155	Electricity Storage: Renewable Energy Applications in the Australian Context. IEEE Electrification Magazine, 2015, 3, 22-29.	1.8	27
156	Maximizing the income for wind power plant integrated with a battery energy storage system using dynamic programming. , 2015, , .		1
157	Reducing circulating currents in interleaved converter legs under selective harmonic elimination pulse-width modulation. , 2015, , .		6
158	2D-interval forecasts for solar power production. Solar Energy, 2015, 122, 191-203.	6.1	82
159	Comment on 'Reliability constrained unit commitment with combined hydro and thermal generation embedded using self-learning group search optimizer' by J.H. Zheng, J.J. Chen, Q.H. Wu, and Z.X. Jing [Energy 81 (2015) 245–254]. Energy, 2015, 89, 1103-1105.	8.8	3
160	Comparison and evaluation of sub-module configurations in modular multilevel converters. , 2015, , .		48
161	A Robust Technique for Single-Phase Grid Voltage Fundamental and Harmonic Parameter Estimation. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 3262-3273.	4.7	31
162	Uncertainty management in multiobjective hydro-thermal self-scheduling under emission considerations. Applied Soft Computing Journal, 2015, 37, 737-750.	7.2	22

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163	Grid synchronisation technique without using trigonometric functions for accurate estimation of fundamental voltage parameters. IET Generation, Transmission and Distribution, 2015, 9, 1402-1408.	2.5	2
164	Communication delay robustness for multi-agent state of charge balancing between distributed AC microgrid storage systems. , 2015, , .		22
165	Closed-Loop Discontinuous Modulation Technique for Capacitor Voltage Ripples and Switching Losses Reduction in Modular Multilevel Converters. IEEE Transactions on Power Electronics, 2015, 30, 4714-4725.	7.9	89
166	Distributed Cooperative Control of Microgrid Storage. IEEE Transactions on Power Systems, 2015, 30, 2780-2789.	6.5	145
167	Application of explicit model predictive control to a hybrid battery-ultracapacitor power source. Journal of Power Sources, 2015, 277, 84-94.	7.8	46
168	Single-Phase Grid-Connected LiFePO$_{f 4}$ Battery–Supercapacitor Hybrid Energy Storage System With Interleaved Boost Inverter. IEEE Transactions on Power Electronics, 2015, 30, 5591-5604.	7.9	61
169	Current-Balancing Technique for Interleaved Voltage Source Inverters With Magnetically Coupled Legs Connected in Parallel. IEEE Transactions on Industrial Electronics, 2015, 62, 1335-1344.	7.9	61
170	A Review of Multilevel Selective Harmonic Elimination PWM: Formulations, Solving Algorithms, Implementation and Applications. IEEE Transactions on Power Electronics, 2015, 30, 4091-4106.	7.9	447
171	Enhanced Phase-Shifted PWM Carrier Disposition for Interleaved Voltage-Source Inverters. IEEE Transactions on Power Electronics, 2015, 30, 1121-1125.	7.9	45
172	Power System Frequency Estimation by Using a Newton-Type Technique for Smart Meters. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 615-624.	4.7	30
173	Optimal Switching Transition-Based Voltage Balancing Method for Flying Capacitor Multilevel Converters. IEEE Transactions on Power Electronics, 2015, 30, 1804-1817.	7.9	45
174	A fast filtering scheme for capacitor voltages of a cascaded H-bridge multilevel converter based STATCOM. , 2014, , .		2
175	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.	5.4	27
176	Low-voltage ride through capability of three-phase grid-connected photovoltaic inverters with slim film capacitors. , 2014, , .		2
177	Differentiation filter–based technique for robust estimation of single–phase grid voltage frequency under distorted conditions. IET Generation, Transmission and Distribution, 2014, 8, 907-915.	2.5	9
178	Minimum signal modulation scheme based on a single carrier for interleaved operation of parallel phase legs in voltage source converters. IET Power Electronics, 2014, 7, 1305-1312.	2.1	7
179	Carrier interleaved PWM techniques in modular multilevel converters: A comparison based on same voltage level waveforms. , 2014, , .		10
180	Optimal size of battery energy storage and monotonic charging/discharging strategies for wind farms. , 2014, , .		14

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181	Comparison of phase-shifted and level-shifted PWM in the modular multilevel converter. , 2014, , .		57
182	Line current harmonics of three‐level neutral‐point‐clamped electric multiple unit rectifiers: analysis, simulation and testing. IET Power Electronics, 2014, 7, 1850-1858.	2.1	29
183	Cooperative control of DC microgrid storage for energy balancing and equal power sharing. , 2014, , .		20
184	Optimal zero sequence injection in multilevel cascaded H-bridge converter under unbalanced photovoltaic power generation. , 2014, , .		22
185	Performance Evaluation of Three-Phase Grid-Connected Photovoltaic Inverters Using Electrolytic or Polypropylene Film Capacitors. IEEE Transactions on Sustainable Energy, 2014, 5, 1297-1306.	8.8	57
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