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	VSC-Based HVDC Power Transmission Systems: An Overview. IEEE Transactions on Power Electronics, 2009, 24, 592-602.	7.9	1,810
2	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
3	A Model Predictive Control System for a Hybrid Battery-Ultracapacitor Power Source. IEEE Transactions on Power Electronics, 2014, 29, 1469-1479.	7.9	362
4	Selective Harmonic Elimination PWM Control for Cascaded Multilevel Voltage Source Converters: A Generalized Formula. IEEE Transactions on Power Electronics, 2008, 23, 1620-1630.	7.9	347
5	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
6	Control Strategies for Microgrids With Distributed Energy Storage Systems: An Overview. IEEE Transactions on Smart Grid, 2018, 9, 3652-3666.	9.0	307
7	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
8	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
9	Power Smoothing of Large Solar PV Plant Using Hybrid Energy Storage. IEEE Transactions on Sustainable Energy, 2014, 5, 834-842.	8.8	238
10	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
11	Modified Phase-Shifted PWM Control for Flying Capacitor Multilevel Converters. IEEE Transactions on Power Electronics, 2007, 22, 178-185.	7.9	206
12	Correlation and instance based feature selection for electricity load forecasting. Knowledge-Based Systems, 2015, 82, 29-40.	7.1	173
13	Selective harmonic elimination pulse‐width modulation of modular multilevel converters. IET Power Electronics, 2013, 6, 96-107.	2.1	172
14	Univariate and multivariate methods for very short-term solar photovoltaic power forecasting. Energy Conversion and Management, 2016, 121, 380-390.	9.2	163
15	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
16	Unified Distributed Control for DC Microgrid Operating Modes. IEEE Transactions on Power Systems, 2016, 31, 802-812.	6.5	157
17	Multiple sets of solutions for harmonic elimination PWM bipolar waveforms: analysis and experimental verification. IEEE Transactions on Power Electronics, 2006, 21, 415-421.	7.9	153
18	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

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19	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
20	Performance evaluation of half-bridge cascaded multilevel converters operated with multicarrier sinusoidal PWM techniques. , 2009, , .		148
21	Distributed Cooperative Control of Microgrid Storage. IEEE Transactions on Power Systems, 2015, 30, 2780-2789.	6.5	145
22	Optimal scheduling of renewable micro-grids considering plug-in hybrid electric vehicle charging demand. Energy, 2016, 100, 285-297.	8.8	142
23	Multilevel converters for single-phase grid connected photovoltaic systems: an overview. Solar Energy, 1999, 66, 325-335.	6.1	141
24	Hybrid Flying-Capacitor-Based Active-Neutral-Point-Clamped Five-Level Converter Operated With SHE-PWM. IEEE Transactions on Industrial Electronics, 2011, 58, 4643-4653.	7.9	141
25	Accurate and Less-Disturbing Active Antiislanding Method Based on PLL for Grid-Connected Converters. IEEE Transactions on Power Electronics, 2010, 25, 1576-1584.	7.9	139
26	Photovoltaic-Battery-Powered DC Bus System for Common Portable Electronic Devices. IEEE Transactions on Power Electronics, 2009, 24, 849-855.	7.9	138
27	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
28	A Five-Level Symmetrically Defined Selective Harmonic Elimination PWM Strategy: Analysis and Experimental Validation. IEEE Transactions on Power Electronics, 2008, 23, 19-26.	7.9	133
29	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
30	Active Redundant Submodule Configuration in Modular Multilevel Converters. IEEE Transactions on Power Delivery, 2013, 28, 2333-2341.	4.3	130
31	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
32	Application specific harmonic performance evaluation of multicarrier PWM techniques. , 0, , .		127
33	A Single-Phase Grid-Connected Fuel Cell System Based on a Boost-Inverter. IEEE Transactions on Power Electronics, 2013, 28, 279-288.	7.9	126
34	Optimal injection of harmonics in circulating currents of modular multilevel converters for capacitor voltage ripple minimization. , 2013, , .		123
35	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
36	Analysis, design and experimental results of a floating-output interleaved-input boost-derived DCâ€"DC high-gain transformer-less converter. IET Power Electronics, 2011, 4, 168.	2.1	121

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37	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
38	Model Predictive Control for Distributed Microgrid Battery Energy Storage Systems. IEEE Transactions on Control Systems Technology, 2018, 26, 1107-1114.	5.2	114
39	Hybrid Seven-Level Cascaded Active Neutral-Point-Clamped-Based Multilevel Converter Under SHE-PWM. IEEE Transactions on Industrial Electronics, 2013, 60, 4794-4804.	7.9	112
40	Selective Harmonic Elimination Model Predictive Control for Multilevel Power Converters. IEEE Transactions on Power Electronics, 2017, 32, 2416-2426.	7.9	111
41	On Attaining the Multiple Solutions of Selective Harmonic Elimination PWM Three-Level Waveforms Through Function Minimization. IEEE Transactions on Industrial Electronics, 2008, 55, 996-1004.	7.9	109
42	Offset rejection for PLL based synchronization in grid-connected converters. IEEE Applied Power Electronics Conference and Exposition, 2008, , .	0.0	108
43	Decoupled Control System for Cascaded H-Bridge Multilevel Converter Based STATCOM. IEEE Transactions on Industrial Electronics, 2016, 63, 322-331.	7.9	108
44	Improving Wind Farm Dispatch in the Australian Electricity Market With Battery Energy Storage Using Model Predictive Control. IEEE Transactions on Sustainable Energy, 2013, 4, 745-755.	8.8	107
45	A Minimum Power-Processing-Stage Fuel-Cell Energy System Based on a Boost-Inverter With a Bidirectional Backup Battery Storage. IEEE Transactions on Power Electronics, 2011, 26, 1568-1577.	7.9	102
46	Supercapacitor Sizing Method for Energy-Controlled Filter-Based Hybrid Energy Storage Systems. IEEE Transactions on Power Electronics, 2017, 32, 1626-1637.	7.9	101
47	Modulation Strategy for Multiphase Neutral-Point-Clamped Converters. IEEE Transactions on Power Electronics, 2016, 31, 928-941.	7.9	99
48	Voltage Balancing Control of Three-Level Active NPC Converter Using SHE-PWM. IEEE Transactions on Power Delivery, 2011, 26, 258-267.	4.3	97
49	Power Quality in Microgrids Including Supraharmonics: Issues, Standards, and Mitigations. IEEE Access, 2020, 8, 127104-127122.	4.2	95
50	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
51	Minimization of the capacitor voltage fluctuations of a modular multilevel converter by circulating current control. , 2012, , .		93
52	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
53	On Applying a Minimization Technique to the Harmonic Elimination PWM Control: The Bipolar Waveform. IEEE Power Electronics Letters, 2004, 2, 41-44.	0.7	91
54	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

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55	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
56	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
57	Low-Capacitance Cascaded H-Bridge Multilevel StatCom. IEEE Transactions on Power Electronics, 2017, 32, 1744-1754.	7.9	86
58	Voltage-Balancing Method Using Phase-Shifted PWM for the Flying Capacitor Multilevel Converter. IEEE Transactions on Power Electronics, 2014, 29, 4521-4531.	7.9	85
59	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
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61	2D-interval forecasts for solar power production. Solar Energy, 2015, 122, 191-203.	6.1	82
62	Current Control of Grid-Connected Boost Inverter With Zero Steady-State Error. IEEE Transactions on Power Electronics, 2011, 26, 2825-2834.	7.9	81
63	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
64	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
65	Slow Sampling Online Optimization Approach to Estimate Power System Frequency. IEEE Transactions on Smart Grid, 2011, 2, 265-277.	9.0	78
66	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
67	Frequency Adaptive Least-Squares-Kalman Technique for Real-Time Voltage Envelope and Flicker Estimation. IEEE Transactions on Industrial Electronics, 2012, 59, 3330-3341.	7.9	76
68	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
69	A DC-Side Sensorless Cascaded H-Bridge Multilevel Converter-Based Photovoltaic System. IEEE Transactions on Industrial Electronics, 2016, 63, 4233-4241.	7.9	75
70	Power Flow Management of Isolated Multiport Converter for More Electric Aircraft. IEEE Transactions on Power Electronics, 2017, 32, 5850-5861.	7.9	74
71	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
72	VSC Transmission System Using Flying Capacitor Multilevel Converters and Hybrid PWM Control. IEEE Transactions on Power Delivery, 2007, 22, 693-702.	4.3	72

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73	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
74	On considering magnetic saturation with maximum torque to current control in interior permanent magnet synchronous motor drives. IEEE Transactions on Energy Conversion, 2001, 16, 246-252.	5.2	71
75	Recent Advances in High-Voltage Direct-Current Power Transmission Systems. , 2006, , .		71
76	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
77	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
78	Accurate Estimation of Single-Phase Grid Voltage Parameters Under Distorted Conditions. IEEE Transactions on Power Delivery, 2014, 29, 1138-1146.	4.3	68
79	Considerations of Sectionalizing Switches in Distribution Networks With Distributed Generation. IEEE Transactions on Power Delivery, 2015, 30, 1401-1409.	4.3	67
80	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
81	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
82	Cascade-Free Model Predictive Control for Single-Phase Grid-Connected Power Converters. IEEE Transactions on Industrial Electronics, 2017, 64, 285-294.	7.9	66
83	"Dead-band" PWM switching patterns. IEEE Transactions on Power Electronics, 1996, 11, 522-531.	7.9	65
84	Real-Time Power System Phasors and Harmonics Estimation Using a New Decoupled Recursive-Least-Squares Technique for DSP Implementation. IEEE Transactions on Industrial Electronics, 2013, 60, 2295-2308.	7.9	64
85	Comparison of zero€sequence injection methods in cascaded H€bridge multilevel converters for large€scale photovoltaic integration. IET Renewable Power Generation, 2017, 11, 603-613.	3.1	62
86	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
87	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
88	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
89	Integrated Reconfigurable Converter Topology for High-Voltage Battery Systems. IEEE Transactions on Power Electronics, 2016, 31, 1968-1979.	7.9	60
90	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

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91	Decentralised control method for DC microgrids with improved current sharing accuracy. IET Generation, Transmission and Distribution, 2017, 11, 696-706.	2.5	60
92	A cascaded inverter for transformerless single-phase grid-connected photovoltaic systems. Renewable Energy, 2001, 22, 255-262.	8.9	59
93	Predictive Control of Cascaded H-Bridge Converters Under Unbalanced Power Generation. IEEE Transactions on Industrial Electronics, 2017, 64, 4-13.	7.9	59
94	Active capacitor voltage control of flying capacitor multilevel converters. IET Electric Power Applications, 2004, 151, 313.	1.4	58
95	Comparison of phase-shifted and level-shifted PWM in the modular multilevel converter. , 2014, , .		57
96	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
97	Common Mode Noise Analysis for Cascaded Boost Converter With Silicon Carbide Devices. IEEE Transactions on Power Electronics, 2017, 32, 1917-1926.	7.9	57
98	Hybrid genetic algorithm approach for selective harmonic control. Energy Conversion and Management, 2008, 49, 131-142.	9.2	56
99	Voltage Security Considerations in Optimal Operation of BEVs/PHEVs Integrated Microgrids. IEEE Transactions on Smart Grid, 2015, 6, 1575-1587.	9.0	56
100	Control of Circulating Currents in Modular Multilevel Converters Through Redundant Voltage Levels. IEEE Transactions on Power Electronics, 2016, 31, 7761-7769.	7.9	56
101	Single-carrier sinusoidal PWM-equivalent selective harmonic elimination for a five-level voltage source converter. Electric Power Systems Research, 2008, 78, 1826-1836.	3.6	55
102	Voltage Balancing Method for a Flying Capacitor Multilevel Converter Using Phase Disposition PWM. IEEE Transactions on Industrial Electronics, 2014, 61, 6538-6546.	7.9	55
103	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
104	On Abolishing Symmetry Requirements in the Formulation of a Five-Level Selective Harmonic Elimination Pulse-Width Modulation Technique. IEEE Transactions on Power Electronics, 2006, 21, 1833-1837.	7.9	54
105	A Single-Stage Fuel Cell Energy System Based on a Buck--Boost Inverter with a Backup Energy Storage Unit. IEEE Transactions on Power Electronics, 2012, 27, 2825-2834.	7.9	54
106	A Three-Phase Frequency-Adaptive Phase-Locked Loop for Independent Single-Phase Operation. IEEE Transactions on Power Electronics, 2014, 29, 6255-6259.	7.9	54
107	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
108	Single-Carrier Phase-Disposition PWM Implementation for Multilevel Flying Capacitor Converters. IEEE Transactions on Power Electronics, 2015, 30, 5376-5380.	7.9	53

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109	Analysis of multi-carrier PWM methods for back-to-back HVDC systems based on modular multilevel converters. , 2011, , .		52
110	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
111	On comparing the symmetrical and non-symmetrical selective harmonic elimination pulse-width modulation technique for two-level three-phase voltage source converters. IET Power Electronics, 2010, 3, 829.	2.1	51
112	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
113	A transformerless five level cascaded inverter based single phase photovoltaic system. , 0, , .		49
114	Accurate and less-disturbing active anti-islanding method based on PLL for grid-connected PV Inverters. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	48
115	Analysis of voltage balancing limits in modular multilevel converters. , 2011, , .		48
116	Comparison and evaluation of sub-module configurations in modular multilevel converters. , 2015, , .		48
117	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
118	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
119	Very short-term electricity load demand forecasting using support vector regression. , 2009, , .		46
120	Application of explicit model predictive control to a hybrid battery-ultracapacitor power source. Journal of Power Sources, 2015, 277, 84-94.	7.8	46
121	Enhanced Phase-Shifted PWM Carrier Disposition for Interleaved Voltage-Source Inverters. IEEE Transactions on Power Electronics, 2015, 30, 1121-1125.	7.9	45
122	Optimal Switching Transition-Based Voltage Balancing Method for Flying Capacitor Multilevel Converters. IEEE Transactions on Power Electronics, 2015, 30, 1804-1817.	7.9	45
123	Operation of a modular multilevel converter with selective harmonic elimination PWM. , 2011, , .		44
124	On Improving Phase-Shifted PWM for Flying Capacitor Multilevel Converters. IEEE Transactions on Power Electronics, 2016, 31, 5384-5388.	7.9	44
125	Flying capacitor multilevel PWM converter based UPFC. IET Electric Power Applications, 2002, 149, 304.	1.4	43
126	Cascaded H-bridge multilevel converter for large-scale PV grid-integration with isolated DC-DC stage. , 2012, , .		42

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127	Voltage-Balancing Method for Stacked Multicell Converters Using Phase-Disposition PWM. IEEE Transactions on Industrial Electronics, 2015, 62, 4001-4010.	7.9	42
128	Forecasting solar power generated by grid connected PV systems using ensembles of neural networks. , 2015, , .		40
129	Power Management for Improved Dispatch of Utility-Scale PV Plants. IEEE Transactions on Power Systems, 2016, 31, 2297-2306.	6.5	40
130	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
131	Initial Capacitor Charging in Grid-Connected Flying Capacitor Multilevel Converters. IEEE Transactions on Power Electronics, 2014, 29, 3245-3249.	7.9	39
132	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
133	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
134	Flyback-based high step-up converter with reduced power processing stages. IET Power Electronics, 2012, 5, 349-357.	2.1	38
135	Solution trajectories for selective harmonic elimination pulse-width modulation for seven-level waveforms: analysis and implementation. IET Power Electronics, 2012, 5, 22.	2.1	36
136	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
137	Circulating current control and evaluation of carrier dispositions in modular multilevel converters. , 2013, , .		35
138	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
139	Passive Reactor Compensated Cascaded H-Bridge Multilevel LC-StatCom. IEEE Transactions on Power Electronics, 2017, 32, 8338-8348.	7.9	35
140	On extending the energy balancing limit of multilevel cascaded H-bridge converters for large-scale photovoltaic farms. , 2013, , .		34
141	Lifetime Cost Assessment of Permanent Magnet Synchronous Generators for MW Level Wind Turbines. IEEE Transactions on Sustainable Energy, 2014, 5, 10-17.	8.8	34
142	Generalisation of flying capacitor-based active-neutral-point-clamped multilevel converter using voltage-level modulation. IET Power Electronics, 2012, 5, 456.	2.1	33
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144	Development considerations of DSP-controlled PWM VSC-based STATCOM. IET Electric Power Applications, 2001, 148, 449.	1.4	31

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145	Control of neutral point and flying capacitor voltages in five-level SHE-PWM controlled ANPC converter. , 2009, , .		31
146	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
147	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
148	Review of DC System Technologies for Large Scale Integration of Wind Energy Systems with Electricity Grids. Energies, 2010, 3, 1303-1319.	3.1	30
149	DC-Link Voltage Ripple Compensation for Multilevel Active-Neutral-Point-Clamped Converters Operated With SHE-PWM. IEEE Transactions on Power Delivery, 2012, 27, 2176-2184.	4.3	30
150	Design and Implementation of Digital Control in a Fuel Cell System. IEEE Transactions on Industrial Informatics, 2013, 9, 1158-1166.	11.3	30
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	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
153	Integrated Reconfigurable Configuration for Battery/Ultracapacitor Hybrid Energy Storage Systems. IEEE Transactions on Energy Conversion, 2016, 31, 1583-1590.	5.2	30
154	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
155	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
156	A Boost-Inverter-Based, Battery-Supported, Fuel-Cell Sourced Three-Phase Stand-Alone Power Supply. IEEE Transactions on Power Electronics, 2014, 29, 6472-6480.	7.9	29
157	Effect of redundant sub-module utilization on modular multilevel converters. , 2012, , .		28
158	A Modified Demodulation Technique for Single-Phase Grid Voltage Fundamental Parameters Estimation. IEEE Transactions on Industrial Electronics, 2014, , 1-1.	7.9	28
159	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
160	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
161	Electricity Storage: Renewable Energy Applications in the Australian Context. IEEE Electrification Magazine, 2015, 3, 22-29.	1.8	27
162	Harmonic elimination control of a five-level DC-AC cascaded H-bridge hybrid inverter. , 2010, , .		26

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163	Selective harmonic elimination pulse-width modulation seven-level cascaded H-bridge converter with optimised DC voltage levels. IET Power Electronics, 2012, 5, 852-862.	2.1	26
164	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
165	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
166	An optimum modulation strategy for a novel "notch" commutated 3-Î¦ PWM inverter. IEEE Transactions on Industry Applications, 1994, 30, 52-61.	4.9	25
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170	On Thermal Impact of Chaotic Frequency Modulation SPWM Techniques. IEEE Transactions on Industrial Electronics, 2017, 64, 2032-2043.	7.9	24
171	Five-level active NPC converter topology: SHE-PWM control and operation principles. , 2007, , .		23
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