Josep Guerrero

List of Publications by Year
in descending order

1,453 papers	80,888 citations	527 127 h-index	959 238 g-index
1475 all docs	1475 docs citations	1475 times ranked	23626 citing authors

#	Article	IF	Citations
1	Hierarchical Control of Droop-Controlled AC and DC Microgridsâ€"A General Approach Toward Standardization. IEEE Transactions on Industrial Electronics, 2011, 58, 158-172.	5.2	3,811
2	Advanced Control Architectures for Intelligent Microgridsâ€"Part I: Decentralized and Hierarchical Control. IEEE Transactions on Industrial Electronics, 2013, 60, 1254-1262.	5.2	1,562
3	A Review of the State of the Art of Power Electronics for Wind Turbines. IEEE Transactions on Power Electronics, 2009, 24, 1859-1875.	5.4	1,168
4	Output Impedance Design of Parallel-Connected UPS Inverters With Wireless Load-Sharing Control. IEEE Transactions on Industrial Electronics, 2005, 52, 1126-1135.	5.2	1,007
5	DC Microgridsâ€"Part II: A Review of Power Architectures, Applications, and Standardization Issues. IEEE Transactions on Power Electronics, 2016, 31, 3528-3549.	5.4	974
6	Microgrids: A review of technologies, key drivers, and outstanding issues. Renewable and Sustainable Energy Reviews, 2018, 90, 402-411.	8.2	932
7	Decentralized Control for Parallel Operation of Distributed Generation Inverters Using Resistive Output Impedance. IEEE Transactions on Industrial Electronics, 2007, 54, 994-1004.	5.2	917
8	Distributed Secondary Control for Islanded Microgridsâ€"A Novel Approach. IEEE Transactions on Power Electronics, 2014, 29, 1018-1031.	5.4	854
9	An Improved Droop Control Method for DC Microgrids Based on Low Bandwidth Communication With DC Bus Voltage Restoration and Enhanced Current Sharing Accuracy. IEEE Transactions on Power Electronics, 2014, 29, 1800-1812.	5.4	837
10	A Wireless Controller to Enhance Dynamic Performance of Parallel Inverters in Distributed Generation Systems. IEEE Transactions on Power Electronics, 2004, 19, 1205-1213.	5.4	835
11	DC Microgridsâ€"Part I: A Review of Control Strategies and Stabilization Techniques. IEEE Transactions on Power Electronics, 2015, , 1-1.	5.4	827
12	Review of Power Sharing Control Strategies for Islanding Operation of AC Microgrids. IEEE Transactions on Smart Grid, 2016, 7, 200-215.	6.2	773
13	Secondary Frequency and Voltage Control of Islanded Microgrids via Distributed Averaging. IEEE Transactions on Industrial Electronics, 2015, 62, 7025-7038.	5.2	760
14	Advanced Control Architectures for Intelligent Microgridsâ€"Part II: Power Quality, Energy Storage, and AC/DC Microgrids. IEEE Transactions on Industrial Electronics, 2013, 60, 1263-1270.	5.2	759
15	Distributed Control to Ensure Proportional Load Sharing and Improve Voltage Regulation in Low-Voltage DC Microgrids. IEEE Transactions on Power Electronics, 2013, 28, 1900-1913.	5.4	748
16	Design and Analysis of the Droop Control Method for Parallel Inverters Considering the Impact of the Complex Impedance on the Power Sharing. IEEE Transactions on Industrial Electronics, 2011, 58, 576-588.	5.2	706
17	Distributed Cooperative Secondary Control of Microgrids Using Feedback Linearization. IEEE Transactions on Power Systems, 2013, 28, 3462-3470.	4.6	700
18	Control Strategy for Flexible Microgrid Based on Parallel Line-Interactive UPS Systems. IEEE Transactions on Industrial Electronics, 2009, 56, 726-736.	5.2	680

#	ARTICLE	IF	CITATIONS
19	Supervisory Control of an Adaptive-Droop Regulated DC Microgrid With Battery Management Capability. IEEE Transactions on Power Electronics, 2014, 29, 695-706.	5.4	636
20	Review of Active and Reactive Power Sharing Strategies in Hierarchical Controlled Microgrids. IEEE Transactions on Power Electronics, 2017, 32, 2427-2451.	5.4	621
21	State-of-Charge Balance Using Adaptive Droop Control for Distributed Energy Storage Systems in DC Microgrid Applications. IEEE Transactions on Industrial Electronics, 2014, 61, 2804-2815.	5.2	603
22	Control of Distributed Uninterruptible Power Supply Systems. IEEE Transactions on Industrial Electronics, 2008, 55, 2845-2859.	5.2	589
23	Wireless-Control Strategy for Parallel Operation of Distributed-Generation Inverters. IEEE Transactions on Industrial Electronics, 2006, 53, 1461-1470.	5.2	565
24	Three-Phase PLLs: A Review of Recent Advances. IEEE Transactions on Power Electronics, 2017, 32, 1894-1907.	5.4	562
25	A Distributed Control Strategy Based on DC Bus Signaling for Modular Photovoltaic Generation Systems With Battery Energy Storage. IEEE Transactions on Power Electronics, 2011, 26, 3032-3045.	5.4	559
26	Modeling, Analysis, and Design of Stationary-Reference-Frame Droop-Controlled Parallel Three-Phase Voltage Source Inverters. IEEE Transactions on Industrial Electronics, 2013, 60, 1271-1280.	5.2	559
27	A Novel Improved Variable Step-Size Incremental-Resistance MPPT Method for PV Systems. IEEE Transactions on Industrial Electronics, 2011, 58, 2427-2434.	5.2	536
28	Adaptive Droop Control Applied to Voltage-Source Inverters Operating in Grid-Connected and Islanded Modes. IEEE Transactions on Industrial Electronics, 2009, 56, 4088-4096.	5.2	504
29	Mode Adaptive Droop Control With Virtual Output Impedances for an Inverter-Based Flexible AC Microgrid. IEEE Transactions on Power Electronics, 2011, 26, 689-701.	5.4	458
30	Moving Average Filter Based Phase-Locked Loops: Performance Analysis and Design Guidelines. IEEE Transactions on Power Electronics, 2014, 29, 2750-2763.	5.4	438
31	Industrial Applications of the Kalman Filter: A Review. IEEE Transactions on Industrial Electronics, 2013, 60, 5458-5471.	5.2	436
32	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
33	Optimal Smart Home Energy Management Considering Energy Saving and a Comfortable Lifestyle. IEEE Transactions on Smart Grid, 2015, 6, 324-332.	6.2	415
34	An Islanding Microgrid Power Sharing Approach Using Enhanced Virtual Impedance Control Scheme. IEEE Transactions on Power Electronics, 2013, 28, 5272-5282.	5.4	408
35	Distributed Generation: Toward a New Energy Paradigm. IEEE Industrial Electronics Magazine, 2010, 4, 52-64.	2.3	395
36	Hierarchical Control of Intelligent Microgrids. IEEE Industrial Electronics Magazine, 2010, 4, 23-29.	2.3	370

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37	Distributed Adaptive Droop Control for DC Distribution Systems. IEEE Transactions on Energy Conversion, 2014, 29, 944-956.	3.7	366
38	A Multiagent-Based Consensus Algorithm for Distributed Coordinated Control of Distributed Generators in the Energy Internet. IEEE Transactions on Smart Grid, 2015, 6, 3006-3019.	6.2	352
39	Hierarchical Control for Multiple DC-Microgrids Clusters. IEEE Transactions on Energy Conversion, 2014, 29, 922-933.	3.7	338
40	Hierarchical Control of Parallel AC-DC Converter Interfaces for Hybrid Microgrids. IEEE Transactions on Smart Grid, 2014, 5, 683-692.	6.2	327
41	Microgrid supervisory controllers and energy management systems: A literature review. Renewable and Sustainable Energy Reviews, 2016, 60, 1263-1273.	8.2	323
42	Optimal Power Flow in Microgrids With Energy Storage. IEEE Transactions on Power Systems, 2013, 28, 3226-3234.	4.6	321
43	Secondary Control for Voltage Quality Enhancement in Microgrids. IEEE Transactions on Smart Grid, 2012, 3, 1893-1902.	6.2	316
44	Comparative Performance Evaluation of Orthogonal-Signal-Generators-Based Single-Phase PLL Algorithmsâ€"A Survey. IEEE Transactions on Power Electronics, 2016, 31, 3932-3944.	5.4	307
45	MAS-Based Distributed Coordinated Control and Optimization in Microgrid and Microgrid Clusters: A Comprehensive Overview. IEEE Transactions on Power Electronics, 2018, 33, 6488-6508.	5.4	306
46	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
47	Single-Phase PLLs: A Review of Recent Advances. IEEE Transactions on Power Electronics, 2017, 32, 9013-9030.	5.4	300
48	Review on Control of DC Microgrids. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2017, , 1-1.	3.7	289
49	Computational optimization techniques applied to microgrids planning: A review. Renewable and Sustainable Energy Reviews, 2015, 48, 413-424.	8.2	288
50	Dynamics Assessment of Advanced Single-Phase PLL Structures. IEEE Transactions on Industrial Electronics, 2013, 60, 2167-2177.	5.2	287
51	Advanced LVDC Electrical Power Architectures and Microgrids: A step toward a new generation of power distribution networks. IEEE Electrification Magazine, 2014, 2, 54-65.	1.8	286
52	Autonomous Voltage Unbalance Compensation in an Islanded Droop-Controlled Microgrid. IEEE Transactions on Industrial Electronics, 2013, 60, 1390-1402.	5.2	285
53	Double-Quadrant State-of-Charge-Based Droop Control Method for Distributed Energy Storage Systems in Autonomous DC Microgrids. IEEE Transactions on Smart Grid, 2015, 6, 147-157.	6.2	282
54	Microgrids: Experiences, barriers and success factors. Renewable and Sustainable Energy Reviews, 2014, 40, 659-672.	8.2	280

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55	Voltage Support Provided by a Droop-Controlled Multifunctional Inverter. IEEE Transactions on Industrial Electronics, 2009, 56, 4510-4519.	5.2	279
56	Distributed Control of Battery Energy Storage Systems for Voltage Regulation in Distribution Networks With High PV Penetration. IEEE Transactions on Smart Grid, 2018, 9, 3582-3593.	6.2	263
57	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
58	Intelligent Distributed Generation and Storage Units for DC Microgridsâ€"A New Concept on Cooperative Control Without Communications Beyond Droop Control. IEEE Transactions on Smart Grid, 2014, 5, 2476-2485.	6.2	256
59	Next-Generation Shipboard DC Power System: Introduction Smart Grid and dc Microgrid Technologies into Maritime Electrical Netowrks. IEEE Electrification Magazine, 2016, 4, 45-57.	1.8	255
60	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
61	Stability Enhancement Based on Virtual Impedance for DC Microgrids With Constant Power Loads. IEEE Transactions on Smart Grid, 2015, 6, 2770-2783.	6.2	250
62	Droop-Free Distributed Control for AC Microgrids. IEEE Transactions on Power Electronics, 2016, 31, 1600-1617.	5.4	248
63	A Cell-to-Cell Battery Equalizer With Zero-Current Switching and Zero-Voltage Gap Based on Quasi-Resonant <italic>LC</italic> Converter and Boost Converter. IEEE Transactions on Power Electronics, 2015, 30, 3731-3747.	5.4	236
64	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
65	An Improved Droop Control Strategy for Reactive Power Sharing in Islanded Microgrid. IEEE Transactions on Power Electronics, 2015, 30, 3133-3141.	5.4	235
66	Mixed-Integer-Linear-Programming-Based Energy Management System for Hybrid PV-Wind-Battery Microgrids: Modeling, Design, and Experimental Verification. IEEE Transactions on Power Electronics, 2017, 32, 2769-2783.	5.4	235
67	Distributed Secondary Voltage and Frequency Control for Islanded Microgrids With Uncertain Communication Links. IEEE Transactions on Industrial Informatics, 2017, 13, 448-460.	7.2	233
68	<italic>dq</italic>-Frame Cascaded Delayed Signal Cancellation- Based PLL: Analysis, Design, and Comparison With Moving Average Filter-Based PLL. IEEE Transactions on Power Electronics, 2015, 30, 1618-1632.	5.4	231
69	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
70	A multi-agent based energy management solution for integrated buildings and microgrid system. Applied Energy, 2017, 203, 41-56.	5.1	226
71	Microgrid Transactive Energy: Review, Architectures, Distributed Ledger Technologies, and Market Analysis. IEEE Access, 2020, 8, 19410-19432.	2.6	223
72	Microgrids: Hierarchical Control and an Overview of the Control and Reserve Management Strategies. IEEE Industrial Electronics Magazine, 2013, 7, 42-55.	2.3	220

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73	On the Secondary Control Architectures of AC Microgrids: An Overview. IEEE Transactions on Power Electronics, 2020, 35, 6482-6500.	5.4	218
74	Autonomous Active Power Control for Islanded AC Microgrids With Photovoltaic Generation and Energy Storage System. IEEE Transactions on Energy Conversion, 2014, 29, 882-892.	3.7	215
75	New Perspectives on Droop Control in AC Microgrid. IEEE Transactions on Industrial Electronics, 2017, 64, 5741-5745.	5.2	213
76	Robust Networked Control Scheme for Distributed Secondary Control of Islanded Microgrids. IEEE Transactions on Industrial Electronics, 2014, 61, 5363-5374.	5.2	211
77	Dynamic Phasors-Based Modeling and Stability Analysis of Droop-Controlled Inverters for Microgrid Applications. IEEE Transactions on Smart Grid, 2014, 5, 2980-2987.	6.2	211
78	Analysis, Design, and Experimental Verification of a Synchronous Reference Frame Voltage Control for Single-Phase Inverters. IEEE Transactions on Industrial Electronics, 2014, 61, 258-269.	5.2	205
79	An Optimal Energy Management System for Islanded Microgrids Based on Multiperiod Artificial Bee Colony Combined With Markov Chain. IEEE Systems Journal, 2017, 11, 1712-1722.	2.9	200
80	DC Microgrid Protection: A Comprehensive Review. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2024, , 1-1.	3.7	198
81	A Control Architecture to Coordinate Renewable Energy Sources and Energy Storage Systems in Islanded Microgrids. IEEE Transactions on Smart Grid, 2015, 6, 1156-1166.	6.2	193
82	Support Vector Machines for crop/weeds identification in maize fields. Expert Systems With Applications, 2012, 39, 11149-11155.	4.4	191
83	Modeling and Sensitivity Study of Consensus Algorithm-Based Distributed Hierarchical Control for DC Microgrids. IEEE Transactions on Smart Grid, 2016, 7, 1504-1515.	6.2	190
84	Design and Tuning of a Modified Power-Based PLL for Single-Phase Grid-Connected Power Conditioning Systems. IEEE Transactions on Power Electronics, 2012, 27, 3639-3650.	5.4	189
85	A Virtual Inertia Control Strategy for DC Microgrids Analogized With Virtual Synchronous Machines. IEEE Transactions on Industrial Electronics, 2017, 64, 6005-6016.	5.2	184
86	Smart transactive energy framework in grid-connected multiple home microgrids under independent and coalition operations. Renewable Energy, 2018, 126, 95-106.	4.3	183
87	Model predictive control of microgrids â€" An overview. Renewable and Sustainable Energy Reviews, 2021, 136, 110422.	8.2	182
88	Data-Driven Control for Interlinked AC/DC Microgrids Via Model-Free Adaptive Control and Dual-Droop Control. IEEE Transactions on Smart Grid, 2017, 8, 557-571.	6.2	179
89	Improvement of Frequency Regulation in VSG-Based AC Microgrid Via Adaptive Virtual Inertia. IEEE Transactions on Power Electronics, 2020, 35, 1589-1602.	5.4	172
90	Small-Signal Analysis of the Microgrid Secondary Control Considering a Communication Time Delay. IEEE Transactions on Industrial Electronics, 2016, 63, 6257-6269.	5.2	171

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91	Centralized Control Architecture for Coordination of Distributed Renewable Generation and Energy Storage in Islanded AC Microgrids. IEEE Transactions on Power Electronics, 2017, 32, 5202-5213.	5.4	171
92	A Novel Distributed Secondary Coordination Control Approach for Islanded Microgrids. IEEE Transactions on Smart Grid, 2018, 9, 2726-2740.	6.2	169
93	Intelligent DC Homes in Future Sustainable Energy Systems: When efficiency and intelligence work together. IEEE Consumer Electronics Magazine, 2016, 5, 74-80.	2.3	166
94	Model Predictive Control of Bidirectional DC–DC Converters and AC/DC Interlinking Converters—A New Control Method for PV-Wind-Battery Microgrids. IEEE Transactions on Sustainable Energy, 2019, 10, 1823-1833.	5.9	166
95	Modeling and Nonlinear Control of a Fuel Cell/Supercapacitor Hybrid Energy Storage System for Electric Vehicles. IEEE Transactions on Vehicular Technology, 2014, 63, 3011-3018.	3.9	164
96	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
97	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
98	Distributed Voltage Unbalance Compensation in Islanded Microgrids by Using a Dynamic Consensus Algorithm. IEEE Transactions on Power Electronics, 2016, 31, 827-838.	5.4	161
99	Feedback Linearization of a Single-Phase Active Power Filter via Sliding Mode Control. IEEE Transactions on Power Electronics, 2008, 23, 116-125.	5.4	160
100	Selective Harmonic-Compensation Control for Single-Phase Active Power Filter With High Harmonic Rejection. IEEE Transactions on Industrial Electronics, 2009, 56, 3117-3127.	5.2	160
101	Performance analysis of a PV/Diesel hybrid system for a remote area in Bangladesh: Effects of dispatch strategies, batteries, and generator selection. Energy, 2019, 169, 263-276.	4.5	157
102	Uninterruptible power supply systems provide protection. IEEE Industrial Electronics Magazine, 2007, 1, 28-38.	2.3	156
103	Optimal placement, sizing, and daily charge/discharge of battery energy storage in low voltage distribution network with high photovoltaic penetration. Applied Energy, 2018, 226, 957-966.	5.1	154
104	A Distributed Control Strategy for Coordination of an Autonomous LVDC Microgrid Based on Power-Line Signaling. IEEE Transactions on Industrial Electronics, 2014, 61, 3313-3326.	5.2	152
105	A Consensus-Based Cooperative Control of PEV Battery and PV Active Power Curtailment for Voltage Regulation in Distribution Networks. IEEE Transactions on Smart Grid, 2019, 10, 670-680.	6.2	152
106	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
107	Line-Interactive UPS for Microgrids. IEEE Transactions on Industrial Electronics, 2014, 61, 1292-1300.	5.2	149
108	Power Flow Analysis for Low-Voltage AC and DC Microgrids Considering Droop Control and Virtual Impedance. IEEE Transactions on Smart Grid, 2017, 8, 2754-2764.	6.2	146

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109	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
110	Automatic detection of crop rows in maize fields with high weeds pressure. Expert Systems With Applications, 2012, 39, 11889-11897.	4.4	144
111	Distributed Noise-Resilient Secondary Voltage and Frequency Control for Islanded Microgrids. IEEE Transactions on Smart Grid, 2019, 10, 3780-3790.	6.2	144
112	Hierarchical Control Design for a Shipboard Power System With DC Distribution and Energy Storage Aboard Future More-Electric Ships. IEEE Transactions on Industrial Informatics, 2018, 14, 703-714.	7.2	143
113	Distributed Nonlinear Control With Event-Triggered Communication to Achieve Current-Sharing and Voltage Regulation in DC Microgrids. IEEE Transactions on Power Electronics, 2018, 33, 6416-6433.	5.4	142
114	Modeling, Tuning, and Performance Comparison of Second-Order-Generalized-Integrator-Based FLLs. IEEE Transactions on Power Electronics, 2018, 33, 10229-10239.	5.4	141
115	Conventional Synchronous Reference Frame Phase-Locked Loop is an Adaptive Complex Filter. IEEE Transactions on Industrial Electronics, 2015, 62, 1679-1682.	5.2	140
116	PLL With MAF-Based Prefiltering Stage: Small-Signal Modeling and Performance Enhancement. IEEE Transactions on Power Electronics, 2016, 31, 4013-4019.	5.4	139
117	Blockchain for power systems: Current trends and future applications. Renewable and Sustainable Energy Reviews, 2020, 119, 109585.	8.2	138
118	Voltage-Level Selection of Future Two-Level LVdc Distribution Grids: A Compromise Between Grid Compatibiliy, Safety, and Efficiency. IEEE Electrification Magazine, 2016, 4, 20-28.	1.8	137
119	A Current Limiting Strategy to Improve Fault Ride-Through of Inverter Interfaced Autonomous Microgrids. IEEE Transactions on Smart Grid, 2017, 8, 2138-2148.	6.2	137
120	Virtual Flux Droop Methodâ€"A New Control Strategy of Inverters in Microgrids. IEEE Transactions on Power Electronics, 2014, 29, 4704-4711.	5.4	136
121	Review on microgrids protection. IET Generation, Transmission and Distribution, 2019, 13, 743-759.	1.4	136
122	A Quasi-Type-1 Phase-Locked Loop Structure. IEEE Transactions on Power Electronics, 2014, 29, 6264-6270.	5.4	135
123	Leakage Current Elimination of Four-Leg Inverter for Transformerless Three-Phase PV Systems. IEEE Transactions on Power Electronics, 2016, 31, 1841-1846.	5.4	135
124	Secondary Restoration Control of Islanded Microgrids With a Decentralized Event-Triggered Strategy. IEEE Transactions on Industrial Informatics, 2018, 14, 3870-3880.	7.2	135
125	A Review of Power Electronics Based Microgrids. Journal of Power Electronics, 2012, 12, 181-192.	0.9	135
126	Advantages and Challenges of a Type-3 PLL. IEEE Transactions on Power Electronics, 2013, 28, 4985-4997.	5.4	132

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127	Multiagent System-Based Distributed Coordinated Control for Radial DC Microgrid Considering Transmission Time Delays. IEEE Transactions on Smart Grid, 2017, 8, 2370-2381.	6.2	132
128	Distributed Smart Decision-Making for a Multimicrogrid System Based on a Hierarchical Interactive Architecture. IEEE Transactions on Energy Conversion, 2016, 31, 637-648.	3.7	131
129	A Decentralized Control Architecture Applied to DC Nanogrid Clusters for Rural Electrification in Developing Regions. IEEE Transactions on Power Electronics, 2019, 34, 1773-1785.	5.4	130
130	A Decentralized Scalable Approach to Voltage Control of DC Islanded Microgrids. IEEE Transactions on Control Systems Technology, 2016, 24, 1965-1979.	3.2	129
131	Single-Phase Frequency-Locked Loops: A Comprehensive Review. IEEE Transactions on Power Electronics, 2019, 34, 11791-11812.	5.4	129
132	Hybrid Three-Phase/Single-Phase Microgrid Architecture With Power Management Capabilities. IEEE Transactions on Power Electronics, 2015, 30, 5964-5977.	5.4	128
133	Single-Phase Microgrid With Seamless Transition Capabilities Between Modes of Operation. IEEE Transactions on Smart Grid, 2015, 6, 2736-2745.	6.2	128
134	Hybrid machine intelligent SVR variants for wind forecasting and ramp events. Renewable and Sustainable Energy Reviews, 2019, 108, 369-379.	8.2	127
135	Reactive Power Management in Islanded Microgridâ€"Proportional Power Sharing in Hierarchical Droop Control. IEEE Transactions on Smart Grid, 2015, 6, 1631-1638.	6.2	126
136	An Efficient Implementation of Generalized Delayed Signal Cancellation PLL. IEEE Transactions on Power Electronics, 2016, 31, 1085-1094.	5.4	126
137	Sequence-Impedance-Based Stability Comparison Between VSGs and Traditional Grid-Connected Inverters. IEEE Transactions on Power Electronics, 2019, 34, 46-52.	5.4	126
138	Automatic Power-Sharing Modification of P/V Droop Controllers in Low-Voltage Resistive Microgrids. IEEE Transactions on Power Delivery, 2012, 27, 2318-2325.	2.9	125
139	Flexible Control Strategy for Grid-Connected Inverter Under Unbalanced Grid Faults Without PLL. IEEE Transactions on Power Electronics, 2015, 30, 1773-1778.	5.4	125
140	Multiagent-Based Distributed State of Charge Balancing Control for Distributed Energy Storage Units in AC Microgrids. IEEE Transactions on Industry Applications, 2017, 53, 2369-2381.	3.3	125
141	A Multi-Functional Fully Distributed Control Framework for AC Microgrids. IEEE Transactions on Smart Grid, 2018, 9, 3247-3258.	6.2	123
142	Model Order Reductions for Stability Analysis of Islanded Microgrids With Droop Control. IEEE Transactions on Industrial Electronics, 2015, 62, 4344-4354.	5.2	121
143	A hierarchical energy management strategy for interconnected microgrids considering uncertainty. International Journal of Electrical Power and Energy Systems, 2019, 109, 597-608.	3.3	121
144	A coordinated control of hybrid ac/dc microgrids with PV-wind-battery under variable generation and load conditions. International Journal of Electrical Power and Energy Systems, 2019, 104, 583-592.	3.3	118

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145	Voltage Quality Improvement in Low Voltage Distribution Networks Using Reactive Power Capability of Single-Phase PV Inverters. IEEE Transactions on Smart Grid, 2019, 10, 5057-5065.	6.2	118
146	Virtual-Impedance-Based Fault Current Limiters for Inverter Dominated AC Microgrids. IEEE Transactions on Smart Grid, 2018, 9, 1599-1612.	6.2	117
147	Performance Improvement of a Prefiltered Synchronous-Reference-Frame PLL by Using a PID-Type Loop Filter. IEEE Transactions on Industrial Electronics, 2014, 61, 3469-3479.	5.2	116
148	Five Approaches to Deal With Problem of DC Offset in Phase-Locked Loop Algorithms: Design Considerations and Performance Evaluations. IEEE Transactions on Power Electronics, 2016, 31, 648-661.	5.4	116
149	Power Oscillations Damping in DC Microgrids. IEEE Transactions on Energy Conversion, 2016, 31, 970-980.	3.7	115
150	A model predictive control strategy of PV-Battery microgrid under variable power generations and load conditions. Applied Energy, 2018, 221, 195-203.	5.1	115
151	Adaptive protection combined with machine learning for microgrids. IET Generation, Transmission and Distribution, 2019, 13, 770-779.	1.4	115
152	Seamless Transition of Microgrids Operation From Grid-Connected to Islanded Mode. IEEE Transactions on Smart Grid, 2020, 11, 2106-2114.	6.2	115
153	Multiple-Time-Scales Hierarchical Frequency Stability Control Strategy of Medium-Voltage Isolated Microgrid. IEEE Transactions on Power Electronics, 2016, 31, 5974-5991.	5.4	114
154	Cost-Based Droop Schemes for Economic Dispatch in Islanded Microgrids. IEEE Transactions on Smart Grid, 2017, 8, 63-74.	6.2	114
155	Optimisation of solar/wind/bio-generator/diesel/battery based microgrids for rural areas: A PSO-GWO approach. Sustainable Cities and Society, 2021, 67, 102723.	5.1	112
156	Hybrid Active Filter With Variable Conductance for Harmonic Resonance Suppression in Industrial Power Systems. IEEE Transactions on Industrial Electronics, 2015, 62, 746-756.	5.2	111
157	Tertiary and Secondary Control Levels for Efficiency Optimization and System Damping in Droop Controlled DCâ€"DC Converters. IEEE Transactions on Smart Grid, 2015, 6, 2615-2626.	6.2	110
158	Distributed Hierarchical Control of AC Microgrid Operating in Grid-Connected, Islanded and Their Transition Modes. IEEE Access, 2018, 6, 77388-77401.	2.6	110
159	Energy scheduling of community microgrid with battery cost using particle swarm optimisation. Applied Energy, 2019, 254, 113723.	5.1	110
160	A Novel Approach to Neighborhood Fair Energy Trading in a Distribution Network of Multiple Microgrid Clusters. IEEE Transactions on Industrial Electronics, 2019, 66, 1520-1531.	5.2	110
161	Inducverters: PLL-Less Converters With Auto-Synchronization and Emulated Inertia Capability. IEEE Transactions on Smart Grid, 2016, 7, 1660-1674.	6.2	109
162	An overview of power quality enhancement techniques applied to distributed generation in electrical distribution networks. Renewable and Sustainable Energy Reviews, 2018, 93, 201-214.	8.2	109

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163	A High Step-Up Interleaved DC-DC Converter With Voltage Multiplier and Coupled Inductors for Renewable Energy Systems. IEEE Access, 2020, 8, 123165-123174.	2.6	109
164	A Model Predictive Control for Renewable Energy Based AC Microgrids Without Any PID Regulators. IEEE Transactions on Power Electronics, 2018, 33, 9122-9126.	5.4	108
165	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
166	Distributed Coordination of Islanded Microgrid Clusters Using a Two-Layer Intermittent Communication Network. IEEE Transactions on Industrial Informatics, 2018, 14, 3956-3969.	7.2	106
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