

Josep M Guerrero

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10984463/publications.pdf>

Version: 2024-02-01

805
papers

61,845
citations

735

120
h-index

1505

219
g-index

810
all docs

810
docs citations

810
times ranked

18901
citing authors

#	ARTICLE	IF	CITATIONS
1	Hierarchical Control of Droop-Controlled AC and DC Microgrids—A General Approach Toward Standardization. IEEE Transactions on Industrial Electronics, 2011, 58, 158-172.	7.9	3,811
2	Advanced Control Architectures for Intelligent Microgrids—Part I: Decentralized and Hierarchical Control. IEEE Transactions on Industrial Electronics, 2013, 60, 1254-1262.	7.9	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.	7.9	1,168
4	DC Microgrids—Part II: A Review of Power Architectures, Applications, and Standardization Issues. IEEE Transactions on Power Electronics, 2016, 31, 3528-3549.	7.9	974
5	Decentralized Control for Parallel Operation of Distributed Generation Inverters Using Resistive Output Impedance. IEEE Transactions on Industrial Electronics, 2007, 54, 994-1004.	7.9	917
6	Distributed Secondary Control for Islanded Microgrids—A Novel Approach. IEEE Transactions on Power Electronics, 2014, 29, 1018-1031.	7.9	854
7	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.	7.9	837
8	Review of Power Sharing Control Strategies for Islanding Operation of AC Microgrids. IEEE Transactions on Smart Grid, 2016, 7, 200-215.	9.0	773
9	Secondary Frequency and Voltage Control of Islanded Microgrids via Distributed Averaging. IEEE Transactions on Industrial Electronics, 2015, 62, 7025-7038.	7.9	760
10	Advanced Control Architectures for Intelligent Microgrids—Part II: Power Quality, Energy Storage, and AC/DC Microgrids. IEEE Transactions on Industrial Electronics, 2013, 60, 1263-1270.	7.9	759
11	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.	7.9	706
12	Distributed Cooperative Secondary Control of Microgrids Using Feedback Linearization. IEEE Transactions on Power Systems, 2013, 28, 3462-3470.	6.5	700
13	Control Strategy for Flexible Microgrid Based on Parallel Line-Interactive UPS Systems. IEEE Transactions on Industrial Electronics, 2009, 56, 726-736.	7.9	680
14	Supervisory Control of an Adaptive-Droop Regulated DC Microgrid With Battery Management Capability. IEEE Transactions on Power Electronics, 2014, 29, 695-706.	7.9	636
15	Review of Active and Reactive Power Sharing Strategies in Hierarchical Controlled Microgrids. IEEE Transactions on Power Electronics, 2017, 32, 2427-2451.	7.9	621
16	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.	7.9	603
17	Control of Distributed Uninterruptible Power Supply Systems. IEEE Transactions on Industrial Electronics, 2008, 55, 2845-2859.	7.9	589
18	Three-Phase PLLs: A Review of Recent Advances. IEEE Transactions on Power Electronics, 2017, 32, 1894-1907.	7.9	562

#	ARTICLE	IF	CITATIONS
19	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.	7.9	559
20	Adaptive Droop Control Applied to Voltage-Source Inverters Operating in Grid-Connected and Islanded Modes. IEEE Transactions on Industrial Electronics, 2009, 56, 4088-4096.	7.9	504
21	Mode Adaptive Droop Control With Virtual Output Impedances for an Inverter-Based Flexible AC Microgrid. IEEE Transactions on Power Electronics, 2011, 26, 689-701.	7.9	458
22	Moving Average Filter Based Phase-Locked Loops: Performance Analysis and Design Guidelines. IEEE Transactions on Power Electronics, 2014, 29, 2750-2763.	7.9	438
23	Industrial Applications of the Kalman Filter: A Review. IEEE Transactions on Industrial Electronics, 2013, 60, 5458-5471.	7.9	436
24	Secondary Control Scheme for Voltage Unbalance Compensation in an Islanded Droop-Controlled Microgrid. IEEE Transactions on Smart Grid, 2012, 3, 797-807.	9.0	425
25	An Islanding Microgrid Power Sharing Approach Using Enhanced Virtual Impedance Control Scheme. IEEE Transactions on Power Electronics, 2013, 28, 5272-5282.	7.9	408
26	Distributed Generation: Toward a New Energy Paradigm. IEEE Industrial Electronics Magazine, 2010, 4, 52-64.	2.6	395
27	Hierarchical Control of Intelligent Microgrids. IEEE Industrial Electronics Magazine, 2010, 4, 23-29.	2.6	370
28	Distributed Adaptive Droop Control for DC Distribution Systems. IEEE Transactions on Energy Conversion, 2014, 29, 944-956.	5.2	366
29	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.	9.0	352
30	Hierarchical Control for Multiple DC-Microgrids Clusters. IEEE Transactions on Energy Conversion, 2014, 29, 922-933.	5.2	338
31	Hierarchical Control of Parallel AC-DC Converter Interfaces for Hybrid Microgrids. IEEE Transactions on Smart Grid, 2014, 5, 683-692.	9.0	327
32	Microgrid supervisory controllers and energy management systems: A literature review. Renewable and Sustainable Energy Reviews, 2016, 60, 1263-1273.	16.4	323
33	Optimal Power Flow in Microgrids With Energy Storage. IEEE Transactions on Power Systems, 2013, 28, 3226-3234.	6.5	321
34	Secondary Control for Voltage Quality Enhancement in Microgrids. IEEE Transactions on Smart Grid, 2012, 3, 1893-1902.	9.0	316
35	Comparative Performance Evaluation of Orthogonal-Signal-Generators-Based Single-Phase PLL Algorithms—A Survey. IEEE Transactions on Power Electronics, 2016, 31, 3932-3944.	7.9	307
36	MAS-Based Distributed Coordinated Control and Optimization in Microgrid and Microgrid Clusters: A Comprehensive Overview. IEEE Transactions on Power Electronics, 2018, 33, 6488-6508.	7.9	306

#	ARTICLE	IF	CITATIONS
37	A survey on control of electric power distributed generation systems for microgrid applications. Renewable and Sustainable Energy Reviews, 2015, 44, 751-766.	16.4	305
38	Single-Phase PLLs: A Review of Recent Advances. IEEE Transactions on Power Electronics, 2017, 32, 9013-9030.	7.9	300
39	Review on Control of DC Microgrids. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2017, , 1-1.	5.4	289
40	Computational optimization techniques applied to microgrids planning: A review. Renewable and Sustainable Energy Reviews, 2015, 48, 413-424.	16.4	288
41	Dynamics Assessment of Advanced Single-Phase PLL Structures. IEEE Transactions on Industrial Electronics, 2013, 60, 2167-2177.	7.9	287
42	Autonomous Voltage Unbalance Compensation in an Islanded Droop-Controlled Microgrid. IEEE Transactions on Industrial Electronics, 2013, 60, 1390-1402.	7.9	285
43	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.	9.0	282
44	Microgrids: Experiences, barriers and success factors. Renewable and Sustainable Energy Reviews, 2014, 40, 659-672.	16.4	280
45	Voltage Support Provided by a Droop-Controlled Multifunctional Inverter. IEEE Transactions on Industrial Electronics, 2009, 56, 4510-4519.	7.9	279
46	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.	9.0	263
47	Microgrids in active network management—Part I: Hierarchical control, energy storage, virtual power plants, and market participation. Renewable and Sustainable Energy Reviews, 2014, 36, 428-439.	16.4	262
48	Intelligent Distributed Generation and Storage Units for DC Microgrids—A New Concept on Cooperative Control Without Communications Beyond Droop Control. IEEE Transactions on Smart Grid, 2014, 5, 2476-2485.	9.0	256
49	Next-Generation Shipboard DC Power System: Introduction Smart Grid and dc Microgrid Technologies into Maritime Electrical Networks. IEEE Electrification Magazine, 2016, 4, 45-57.	1.8	255
50	Secondary Control Strategies for Frequency Restoration in Islanded Microgrids With Consideration of Communication Delays. IEEE Transactions on Smart Grid, 2016, 7, 1430-1441.	9.0	254
51	Stability Enhancement Based on Virtual Impedance for DC Microgrids With Constant Power Loads. IEEE Transactions on Smart Grid, 2015, 6, 2770-2783.	9.0	250
52	Droop-Free Distributed Control for AC Microgrids. IEEE Transactions on Power Electronics, 2016, 31, 1600-1617.	7.9	248
53	Control Design Guidelines for Single-Phase Grid-Connected Photovoltaic Inverters With Damped Resonant Harmonic Compensators. IEEE Transactions on Industrial Electronics, 2009, 56, 4492-4501.	7.9	235
54	An Improved Droop Control Strategy for Reactive Power Sharing in Islanded Microgrid. IEEE Transactions on Power Electronics, 2015, 30, 3133-3141.	7.9	235

#	ARTICLE	IF	CITATIONS
55	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.	7.9	235
56	Distributed Secondary Voltage and Frequency Control for Islanded Microgrids With Uncertain Communication Links. IEEE Transactions on Industrial Informatics, 2017, 13, 448-460.	11.3	233
57	dq-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.	7.9	231
58	Reactive Power Sharing and Voltage Harmonic Distortion Compensation of Droop Controlled Single Phase Islanded Microgrids. IEEE Transactions on Smart Grid, 2014, 5, 1149-1158.	9.0	228
59	A multi-agent based energy management solution for integrated buildings and microgrid system. Applied Energy, 2017, 203, 41-56.	10.1	226
60	Microgrid Transactive Energy: Review, Architectures, Distributed Ledger Technologies, and Market Analysis. IEEE Access, 2020, 8, 19410-19432.	4.2	223
61	Microgrids: Hierarchical Control and an Overview of the Control and Reserve Management Strategies. IEEE Industrial Electronics Magazine, 2013, 7, 42-55.	2.6	220
62	On the Secondary Control Architectures of AC Microgrids: An Overview. IEEE Transactions on Power Electronics, 2020, 35, 6482-6500.	7.9	218
63	Autonomous Active Power Control for Islanded AC Microgrids With Photovoltaic Generation and Energy Storage System. IEEE Transactions on Energy Conversion, 2014, 29, 882-892.	5.2	215
64	New Perspectives on Droop Control in AC Microgrid. IEEE Transactions on Industrial Electronics, 2017, 64, 5741-5745.	7.9	213
65	Robust Networked Control Scheme for Distributed Secondary Control of Islanded Microgrids. IEEE Transactions on Industrial Electronics, 2014, 61, 5363-5374.	7.9	211
66	Dynamic Phasors-Based Modeling and Stability Analysis of Droop-Controlled Inverters for Microgrid Applications. IEEE Transactions on Smart Grid, 2014, 5, 2980-2987.	9.0	211
67	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.	7.9	205
68	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.	4.6	200
69	DC Microgrid Protection: A Comprehensive Review. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2024, , 1-1.	5.4	198
70	A Control Architecture to Coordinate Renewable Energy Sources and Energy Storage Systems in Islanded Microgrids. IEEE Transactions on Smart Grid, 2015, 6, 1156-1166.	9.0	193
71	Modeling and Sensitivity Study of Consensus Algorithm-Based Distributed Hierarchical Control for DC Microgrids. IEEE Transactions on Smart Grid, 2016, 7, 1504-1515.	9.0	190
72	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.	7.9	189

#	ARTICLE	IF	CITATIONS
73	A Virtual Inertia Control Strategy for DC Microgrids Analogized With Virtual Synchronous Machines. IEEE Transactions on Industrial Electronics, 2017, 64, 6005-6016.	7.9	184
74	Smart transactive energy framework in grid-connected multiple home microgrids under independent and coalition operations. Renewable Energy, 2018, 126, 95-106.	8.9	183
75	Model predictive control of microgrids – An overview. Renewable and Sustainable Energy Reviews, 2021, 136, 110422.	16.4	182
76	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.	9.0	179
77	Improvement of Frequency Regulation in VSG-Based AC Microgrid Via Adaptive Virtual Inertia. IEEE Transactions on Power Electronics, 2020, 35, 1589-1602.	7.9	172
78	Small-Signal Analysis of the Microgrid Secondary Control Considering a Communication Time Delay. IEEE Transactions on Industrial Electronics, 2016, 63, 6257-6269.	7.9	171
79	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.	7.9	171
80	A Novel Distributed Secondary Coordination Control Approach for Islanded Microgrids. IEEE Transactions on Smart Grid, 2018, 9, 2726-2740.	9.0	169
81	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
82	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.	8.8	166
83	Coordinated Control Based on Bus-Signaling and Virtual Inertia for Islanded DC Microgrids. IEEE Transactions on Smart Grid, 2015, 6, 2627-2638.	9.0	162
84	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.	5.2	161
85	Distributed Voltage Unbalance Compensation in Islanded Microgrids by Using a Dynamic Consensus Algorithm. IEEE Transactions on Power Electronics, 2016, 31, 827-838.	7.9	161
86	Feedback Linearization of a Single-Phase Active Power Filter via Sliding Mode Control. IEEE Transactions on Power Electronics, 2008, 23, 116-125.	7.9	160
87	Selective Harmonic-Compensation Control for Single-Phase Active Power Filter With High Harmonic Rejection. IEEE Transactions on Industrial Electronics, 2009, 56, 3117-3127.	7.9	160
88	Uninterruptible power supply systems provide protection. IEEE Industrial Electronics Magazine, 2007, 1, 28-38.	2.6	156
89	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.	7.9	152
90	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.	9.0	152

#	ARTICLE	IF	CITATIONS
91	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.	7.9	151
92	Line-Interactive UPS for Microgrids. IEEE Transactions on Industrial Electronics, 2014, 61, 1292-1300.	7.9	149
93	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.	9.0	146
94	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.	4.9	145
95	Distributed Noise-Resilient Secondary Voltage and Frequency Control for Islanded Microgrids. IEEE Transactions on Smart Grid, 2019, 10, 3780-3790.	9.0	144
96	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.	11.3	143
97	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.	7.9	142
98	Modeling, Tuning, and Performance Comparison of Second-Order-Generalized-Integrator-Based FLLs. IEEE Transactions on Power Electronics, 2018, 33, 10229-10239.	7.9	141
99	PLL With MAF-Based Prefiltering Stage: Small-Signal Modeling and Performance Enhancement. IEEE Transactions on Power Electronics, 2016, 31, 4013-4019.	7.9	139
100	Blockchain for power systems: Current trends and future applications. Renewable and Sustainable Energy Reviews, 2020, 119, 109585.	16.4	138
101	Voltage-Level Selection of Future Two-Level LVdc Distribution Grids: A Compromise Between Grid Compatibility, Safety, and Efficiency. IEEE Electrification Magazine, 2016, 4, 20-28.	1.8	137
102	A Current Limiting Strategy to Improve Fault Ride-Through of Inverter Interfaced Autonomous Microgrids. IEEE Transactions on Smart Grid, 2017, 8, 2138-2148.	9.0	137
103	Virtual Flux Droop Method—A New Control Strategy of Inverters in Microgrids. IEEE Transactions on Power Electronics, 2014, 29, 4704-4711.	7.9	136
104	Review on microgrids protection. IET Generation, Transmission and Distribution, 2019, 13, 743-759.	2.5	136
105	A Quasi-Type-1 Phase-Locked Loop Structure. IEEE Transactions on Power Electronics, 2014, 29, 6264-6270.	7.9	135
106	Secondary Restoration Control of Islanded Microgrids With a Decentralized Event-Triggered Strategy. IEEE Transactions on Industrial Informatics, 2018, 14, 3870-3880.	11.3	135
107	A Review of Power Electronics Based Microgrids. Journal of Power Electronics, 2012, 12, 181-192.	1.5	135
108	Advantages and Challenges of a Type-3 PLL. IEEE Transactions on Power Electronics, 2013, 28, 4985-4997.	7.9	132

#	ARTICLE	IF	CITATIONS
109	Multiagent System-Based Distributed Coordinated Control for Radial DC Microgrid Considering Transmission Time Delays. IEEE Transactions on Smart Grid, 2017, 8, 2370-2381.	9.0	132
110	Distributed Smart Decision-Making for a Multimicrogrid System Based on a Hierarchical Interactive Architecture. IEEE Transactions on Energy Conversion, 2016, 31, 637-648.	5.2	131
111	A Decentralized Control Architecture Applied to DC Nanogrid Clusters for Rural Electrification in Developing Regions. IEEE Transactions on Power Electronics, 2019, 34, 1773-1785.	7.9	130
112	A Decentralized Scalable Approach to Voltage Control of DC Islanded Microgrids. IEEE Transactions on Control Systems Technology, 2016, 24, 1965-1979.	5.2	129
113	Single-Phase Frequency-Locked Loops: A Comprehensive Review. IEEE Transactions on Power Electronics, 2019, 34, 11791-11812.	7.9	129
114	Hybrid Three-Phase/Single-Phase Microgrid Architecture With Power Management Capabilities. IEEE Transactions on Power Electronics, 2015, 30, 5964-5977.	7.9	128
115	Single-Phase Microgrid With Seamless Transition Capabilities Between Modes of Operation. IEEE Transactions on Smart Grid, 2015, 6, 2736-2745.	9.0	128
116	Reactive Power Management in Islanded Microgridâ€™Proportional Power Sharing in Hierarchical Droop Control. IEEE Transactions on Smart Grid, 2015, 6, 1631-1638.	9.0	126
117	An Efficient Implementation of Generalized Delayed Signal Cancellation PLL. IEEE Transactions on Power Electronics, 2016, 31, 1085-1094.	7.9	126
118	Sequence-Impedance-Based Stability Comparison Between VSGs and Traditional Grid-Connected Inverters. IEEE Transactions on Power Electronics, 2019, 34, 46-52.	7.9	126
119	Automatic Power-Sharing Modification of P/V Droop Controllers in Low-Voltage Resistive Microgrids. IEEE Transactions on Power Delivery, 2012, 27, 2318-2325.	4.3	125
120	Flexible Control Strategy for Grid-Connected Inverter Under Unbalanced Grid Faults Without PLL. IEEE Transactions on Power Electronics, 2015, 30, 1773-1778.	7.9	125
121	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.	4.9	125
122	A Multi-Functional Fully Distributed Control Framework for AC Microgrids. IEEE Transactions on Smart Grid, 2018, 9, 3247-3258.	9.0	123
123	Model Order Reductions for Stability Analysis of Islanded Microgrids With Droop Control. IEEE Transactions on Industrial Electronics, 2015, 62, 4344-4354.	7.9	121
124	A hierarchical energy management strategy for interconnected microgrids considering uncertainty. International Journal of Electrical Power and Energy Systems, 2019, 109, 597-608.	5.5	121
125	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.	5.5	118
126	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.	9.0	118

#	ARTICLE	IF	CITATIONS
127	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.	7.9	116
128	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.	7.9	116
129	Power Oscillations Damping in DC Microgrids. IEEE Transactions on Energy Conversion, 2016, 31, 970-980.	5.2	115
130	A model predictive control strategy of PV-Battery microgrid under variable power generations and load conditions. Applied Energy, 2018, 221, 195-203.	10.1	115
131	Adaptive protection combined with machine learning for microgrids. IET Generation, Transmission and Distribution, 2019, 13, 770-779.	2.5	115
132	Multiple-Time-Scales Hierarchical Frequency Stability Control Strategy of Medium-Voltage Isolated Microgrid. IEEE Transactions on Power Electronics, 2016, 31, 5974-5991.	7.9	114
133	Optimisation of solar/wind/bio-generator/diesel/battery based microgrids for rural areas: A PSO-GWO approach. Sustainable Cities and Society, 2021, 67, 102723.	10.4	112
134	Hybrid Active Filter With Variable Conductance for Harmonic Resonance Suppression in Industrial Power Systems. IEEE Transactions on Industrial Electronics, 2015, 62, 746-756.	7.9	111
135	Tertiary and Secondary Control Levels for Efficiency Optimization and System Damping in Droop Controlled DC-DC Converters. IEEE Transactions on Smart Grid, 2015, 6, 2615-2626.	9.0	110
136	Distributed Hierarchical Control of AC Microgrid Operating in Grid-Connected, Islanded and Their Transition Modes. IEEE Access, 2018, 6, 77388-77401.	4.2	110
137	Energy scheduling of community microgrid with battery cost using particle swarm optimisation. Applied Energy, 2019, 254, 113723.	10.1	110
138	Inducverters: PLL-Less Converters With Auto-Synchronization and Emulated Inertia Capability. IEEE Transactions on Smart Grid, 2016, 7, 1660-1674.	9.0	109
139	An overview of power quality enhancement techniques applied to distributed generation in electrical distribution networks. Renewable and Sustainable Energy Reviews, 2018, 93, 201-214.	16.4	109
140	A Model Predictive Control for Renewable Energy Based AC Microgrids Without Any PID Regulators. IEEE Transactions on Power Electronics, 2018, 33, 9122-9126.	7.9	108
141	Distributed Coordination of Islanded Microgrid Clusters Using a Two-Layer Intermittent Communication Network. IEEE Transactions on Industrial Informatics, 2018, 14, 3956-3969.	11.3	106
142	Control Strategies for Islanded Microgrid Using Enhanced Hierarchical Control Structure With Multiple Current-Loop Damping Schemes. IEEE Transactions on Smart Grid, 2017, 8, 1139-1153.	9.0	105
143	A Spring Search Algorithm Applied to Engineering Optimization Problems. Applied Sciences (Switzerland), 2020, 10, 6173.	2.5	105
144	Economic Dispatch for Operating Cost Minimization Under Real-Time Pricing in Droop-Controlled DC Microgrid. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2017, 5, 587-595.	5.4	104

#	ARTICLE	IF	CITATIONS
145	Dynamic Characteristics Analysis and Stabilization of PV-Based Multiple Microgrid Clusters. IEEE Transactions on Smart Grid, 2019, 10, 805-818.	9.0	104
146	Asymmetrical Grid Fault Ride-Through Strategy of Three-Phase Grid-Connected Inverter Considering Network Impedance Impact in Low-Voltage Grid. IEEE Transactions on Power Electronics, 2014, 29, 1064-1068.	7.9	103
147	Principle and Control Design of Active Ground-Fault Arc Suppression Device for Full Compensation of Ground Current. IEEE Transactions on Industrial Electronics, 2017, 64, 4561-4570.	7.9	103
148	Tertiary Control of Voltage Unbalance Compensation for Optimal Power Quality in Islanded Microgrids. IEEE Transactions on Energy Conversion, 2014, 29, 802-815.	5.2	102
149	Hierarchical control of droop-controlled DC and AC microgrids " a general approach towards standardization. , 2009, , .		101
150	Brief Survey on Attack Detection Methods for Cyber-Physical Systems. IEEE Systems Journal, 2020, 14, 5329-5339.	4.6	101
151	Intelligent Connection Agent for Three-Phase Grid-Connected Microgrids. IEEE Transactions on Power Electronics, 2011, 26, 2993-3005.	7.9	100
152	Small-Signal Modeling of Digitally Controlled Grid-Connected Inverters With \$LCL\$ Filters. IEEE Transactions on Industrial Electronics, 2013, 60, 3752-3765.	7.9	100
153	Small-Signal Modeling, Stability Analysis and Design Optimization of Single-Phase Delay-Based PLLs. IEEE Transactions on Power Electronics, 2016, 31, 3517-3527.	7.9	99
154	Microgrids in active network management " part II: System operation, power quality and protection. Renewable and Sustainable Energy Reviews, 2014, 36, 440-451.	16.4	98
155	Distributed Active Synchronization Strategy for Microgrid Seamless Reconnection to the Grid Under Unbalance and Harmonic Distortion. IEEE Transactions on Smart Grid, 2015, 6, 2757-2769.	9.0	98
156	Decentralized Method for Load Sharing and Power Management in a PV/Battery Hybrid Source Islanded Microgrid. IEEE Transactions on Power Electronics, 2017, 32, 3525-3535.	7.9	98
157	Improved Direct Power Control for Grid-Connected Voltage Source Converters. IEEE Transactions on Industrial Electronics, 2018, 65, 8041-8051.	7.9	97
158	Efficient energy management for a grid-tied residential microgrid. IET Generation, Transmission and Distribution, 2017, 11, 2752-2761.	2.5	96
159	Stable current sharing and voltage balancing in DC microgrids: A consensus-based secondary control layer. Automatica, 2018, 95, 1-13.	5.0	95
160	Distributed Consensus-Based Fault Tolerant Control of Islanded Microgrids. IEEE Transactions on Smart Grid, 2020, 11, 37-47.	9.0	94
161	Optimal sizing of Battery Energy Storage Systems for dynamic frequency control in an islanded microgrid: A case study of Flinders Island, Australia. Energy, 2020, 195, 117059.	8.8	94
162	Power Management Strategy Based on Virtual Inertia for DC Microgrids. IEEE Transactions on Power Electronics, 2020, 35, 12472-12485.	7.9	93

#	ARTICLE	IF	CITATIONS
163	Cooperative Control of Multi-Master "Slave Islanded Microgrid With Power Quality Enhancement Based on Conservative Power Theory. IEEE Transactions on Smart Grid, 2018, 9, 2964-2975.	9.0	92
164	Energy Storage Systems for Shipboard Microgrids "A Review. Energies, 2018, 11, 3492.	3.1	92
165	Modeling and Stability Analysis of LCL-Type Grid-Connected Inverters: A Comprehensive Overview. IEEE Access, 2019, 7, 114975-115001.	4.2	92
166	A New Way of Controlling Parallel-Connected Inverters by Using Synchronous-Reference-Frame Virtual Impedance Loop "Part I: Control Principle. IEEE Transactions on Power Electronics, 2016, 31, 4576-4593.	7.9	91
167	Multilayer Control for Inverters in Parallel Operation Without Intercommunications. IEEE Transactions on Power Electronics, 2012, 27, 3651-3663.	7.9	90
168	A Currentless Sorting and Selection-Based Capacitor-Voltage-Balancing Method for Modular Multilevel Converters. IEEE Transactions on Power Electronics, 2019, 34, 1022-1025.	7.9	90
169	A Circulating-Current Suppression Method for Parallel-Connected Voltage-Source Inverters With Common DC and AC Buses. IEEE Transactions on Industry Applications, 2017, 53, 3758-3769.	4.9	88
170	Containment and Consensus-Based Distributed Coordination Control to Achieve Bounded Voltage and Precise Reactive Power Sharing in Islanded AC Microgrids. IEEE Transactions on Industry Applications, 2017, 53, 5187-5199.	4.9	88
171	Agent-Based Decentralized Control Method for Islanded Microgrids. IEEE Transactions on Smart Grid, 2015, , 1-1.	9.0	87
172	Online Energy Management Systems for Microgrids: Experimental Validation and Assessment Framework. IEEE Transactions on Power Electronics, 2018, 33, 2201-2215.	7.9	87
173	A Microgrid Energy Management System Based on Non-Intrusive Load Monitoring via Multitask Learning. IEEE Transactions on Smart Grid, 2021, 12, 977-987.	9.0	87
174	A Control Algorithm for Electric Vehicle Fast Charging Stations Equipped With Flywheel Energy Storage Systems. IEEE Transactions on Power Electronics, 2016, 31, 6674-6685.	7.9	86
175	Review of Ship Microgrids: System Architectures, Storage Technologies and Power Quality Aspects. Inventions, 2017, 2, 4.	2.5	86
176	Feedback Linearization Of Direct-Drive Synchronous Wind-Turbines Via a Sliding Mode Approach. IEEE Transactions on Power Electronics, 2008, 23, 1093-1103.	7.9	83
177	Mitigation of Harmonics in Grid-Connected and Islanded Microgrids Via Virtual Admittances and Impedances. IEEE Transactions on Smart Grid, 2015, , 1-11.	9.0	83
178	Low-Voltage Ride-Through Operation of Power Converters in Grid-Interactive Microgrids by Using Negative-Sequence Droop Control. IEEE Transactions on Power Electronics, 2017, 32, 3128-3142.	7.9	83
179	Investigation of Nonlinear Droop Control in DC Power Distribution Systems: Load Sharing, Voltage Regulation, Efficiency, and Stability. IEEE Transactions on Power Electronics, 2019, 34, 9404-9421.	7.9	83
180	Effect of state feedback coupling and system delays on the transient performance of stand-alone VSI with LC output filter. IEEE Transactions on Industrial Electronics, 2016, , 1-1.	7.9	82

#	ARTICLE	IF	CITATIONS
181	A Decentralized Current-Sharing Controller Endows Fast Transient Response to Parallel DC-DC Converters. IEEE Transactions on Power Electronics, 2018, 33, 4362-4372.	7.9	82
182	An Islanding Detection Method by Using Frequency Positive Feedback Based on FLL for Single-Phase Microgrid. IEEE Transactions on Smart Grid, 2017, 8, 1821-1830.	9.0	81
183	Decentralized Method for Load Sharing and Power Management in a Hybrid Single/Three-Phase-Islanded Microgrid Consisting of Hybrid Source PV/Battery Units. IEEE Transactions on Power Electronics, 2017, 32, 6135-6144.	7.9	81
184	A cost-effective and emission-aware power management system for ships with integrated full electric propulsion. Electric Power Systems Research, 2017, 150, 63-75.	3.6	79
185	Smart Inverters for Microgrid Applications: A Review. Energies, 2019, 12, 840.	3.1	79
186	Stability analysis of DC microgrids with constant power load under distributed control methods. Automatica, 2018, 90, 62-72.	5.0	78
187	Energy and Frequency Hierarchical Management System Using Information Gap Decision Theory for Islanded Microgrids. IEEE Transactions on Industrial Electronics, 2018, 65, 7921-7932.	7.9	78
188	Discrete Model-Predictive-Control-Based Maximum Power Point Tracking for PV Systems: Overview and Evaluation. IEEE Transactions on Power Electronics, 2018, 33, 7273-7287.	7.9	78
189	Digitalization and decentralization driving transactive energy Internet: Key technologies and infrastructures. International Journal of Electrical Power and Energy Systems, 2021, 126, 106593.	5.5	78
190	A Review of DC Shipboard Microgrids—Part I: Power Architectures, Energy Storage, and Power Converters. IEEE Transactions on Power Electronics, 2022, 37, 5155-5172.	7.9	78
191	Power distribution system improvement planning under hurricanes based on a new resilience index. Sustainable Cities and Society, 2018, 39, 592-604.	10.4	77
192	Decentralized Optimal Frequency Control in Autonomous Microgrids. IEEE Transactions on Power Systems, 2019, 34, 2345-2353.	6.5	77
193	Dynamic Modeling of Networks, Microgrids, and Renewable Sources in the dq0 Reference Frame: A Survey. IEEE Access, 2017, 5, 21323-21335.	4.2	75
194	An MPC-Based ESS Control Method for PV Power Smoothing Applications. IEEE Transactions on Power Electronics, 2018, 33, 2136-2144.	7.9	75
195	Energy management system optimization in islanded microgrids: An overview and future trends. Renewable and Sustainable Energy Reviews, 2021, 149, 111327.	16.4	75
196	Stability Analysis of Primary Plug-and-Play and Secondary Leader-Based Controllers for DC Microgrid Clusters. IEEE Transactions on Power Systems, 2019, 34, 1780-1800.	6.5	74
197	Single-Carrier Modulation for Neutral-Point-Clamped Inverters in Three-Phase Transformerless Photovoltaic Systems. IEEE Transactions on Power Electronics, 2013, 28, 2635-2637.	7.9	73
198	An Adaptive Quadrature Signal Generation-Based Single-Phase Phase-Locked Loop for Grid-Connected Applications. IEEE Transactions on Industrial Electronics, 2017, 64, 2848-2854.	7.9	73

#	ARTICLE	IF	CITATIONS
199	A Model Predictive Power Control Method for PV and Energy Storage Systems With Voltage Support Capability. IEEE Transactions on Smart Grid, 2020, 11, 1018-1029.	9.0	73
200	Power management optimization of hybrid power systems in electric ferries. Energy Conversion and Management, 2018, 172, 50-66.	9.2	72
201	Autonomous Control of Current- and Voltage-Controlled DG Interface Inverters for Reactive Power Sharing and Harmonics Compensation in Islanded Microgrids. IEEE Transactions on Power Electronics, 2018, 33, 9375-9386.	7.9	71
202	A Simple Approach to Enhance the Performance of Complex-Coefficient Filter-Based PLL in Grid-Connected Applications. IEEE Transactions on Industrial Electronics, 2018, 65, 5081-5085.	7.9	71
203	A Two-Layer Distributed Cooperative Control Method for Islanded Networked Microgrid Systems. IEEE Transactions on Smart Grid, 2020, 11, 942-957.	9.0	71
204	A Control Architecture to Coordinate Distributed Generators and Active Power Filters Coexisting in a Microgrid. IEEE Transactions on Smart Grid, 2016, 7, 2325-2336.	9.0	70
205	A Critical Examination of Frequency-Fixed Second-Order Generalized Integrator-Based Phase-Locked Loops. IEEE Transactions on Power Electronics, 2017, 32, 6666-6672.	7.9	70
206	Standard SOGI-FLL and Its Close Variants: Precise Modeling in LTP Framework and Determining Stability Region/Robustness Metrics. IEEE Transactions on Power Electronics, 2021, 36, 409-422.	7.9	70
207	Voltage-Based Control of a Smart Transformer in a Microgrid. IEEE Transactions on Industrial Electronics, 2013, 60, 1291-1305.	7.9	69
208	An overview of low voltage DC distribution systems for residential applications. , 2015, , .		69
209	Principle and Design of a Single-Phase Inverter-Based Grounding System for Neutral-to-Ground Voltage Compensation in Distribution Networks. IEEE Transactions on Industrial Electronics, 2017, 64, 1204-1213.	7.9	69
210	Evaluation of reliability in risk-constrained scheduling of autonomous microgrids with demand response and renewable resources. IET Renewable Power Generation, 2018, 12, 657-667.	3.1	69
211	Passivity-Based Design of Plug-and-Play Current-Controlled Grid-Connected Inverters. IEEE Transactions on Power Electronics, 2020, 35, 2135-2150.	7.9	69
212	Adaptive frequency regulation strategy in multi-area microgrids including renewable energy and electric vehicles supported by virtual inertia. International Journal of Electrical Power and Energy Systems, 2021, 129, 106814.	5.5	69
213	Microgrid Digital Twins: Concepts, Applications, and Future Trends. IEEE Access, 2022, 10, 2284-2302.	4.2	68
214	Flywheel-Based Distributed Bus Signalling Strategy for the Public Fast Charging Station. IEEE Transactions on Smart Grid, 2014, 5, 2825-2835.	9.0	67
215	Internet of Things for Modern Energy Systems: State-of-the-Art, Challenges, and Open Issues. Energies, 2018, 11, 1252.	3.1	67
216	Fast Reactive Power Sharing, Circulating Current and Resonance Suppression for Parallel Inverters Using Resistive-Capacitive Output Impedance. IEEE Transactions on Power Electronics, 2016, 31, 5524-5537.	7.9	66

#	ARTICLE	IF	CITATIONS
217	Stochastic security and risk-constrained scheduling for an autonomous microgrid with demand response and renewable energy resources. IET Renewable Power Generation, 2017, 11, 1812-1821.	3.1	66
218	A Voltage Modulated DPC Approach for Three-Phase PWM Rectifier. IEEE Transactions on Industrial Electronics, 2018, 65, 7612-7619.	7.9	65
219	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.	7.9	65
220	An Enhanced State Observer for DC-Link Voltage Control of Three-Phase AC/DC Converters. IEEE Transactions on Power Electronics, 2018, 33, 936-942.	7.9	65
221	Passivity-Based Stabilization of LCL-Type Grid-Connected Inverters via a General Admittance Model. IEEE Transactions on Power Electronics, 2020, 35, 6636-6648.	7.9	65
222	Distributed secondary control for islanded MicroGrids - A networked control systems approach. , 2012, , .		64
223	Cooperative energy management for a cluster of households prosumers. IEEE Transactions on Consumer Electronics, 2016, 62, 235-242.	3.6	63
224	Optimal simultaneous day-ahead scheduling and hourly reconfiguration of distribution systems considering responsive loads. International Journal of Electrical Power and Energy Systems, 2019, 104, 537-548.	5.5	63
225	A Dual-Discrete Model Predictive Control-Based MPPT for PV Systems. IEEE Transactions on Power Electronics, 2019, 34, 9686-9697.	7.9	63
226	SoC-based droop method for distributed energy storage in DC microgrid applications. , 2012, , .		62
227	A comprehensive review of low-voltage-ride-through methods for fixed-speed wind power generators. Renewable and Sustainable Energy Reviews, 2016, 55, 823-839.	16.4	62
228	Optimal allocation for combined heat and power system with respect to maximum allowable capacity for reduced losses and improved voltage profile and reliability of microgrids considering loading condition. Energy, 2020, 196, 117124.	8.8	62
229	Dynamic consensus algorithm based distributed global efficiency optimization of a droop controlled DC microgrid. , 2014, , .		61
230	Passivity-based coordinated control for islanded AC microgrid. Applied Energy, 2018, 229, 551-561.	10.1	61
231	Stochastic Risk-Constrained Scheduling of Renewable-Powered Autonomous Microgrids With Demand Response Actions: Reliability and Economic Implications. IEEE Transactions on Industry Applications, 2020, 56, 1882-1895.	4.9	61
232	Modeling, stability analysis and active stabilization of multiple DC-microgrid clusters. , 2014, , .		60
233	A Distributed Control Framework for Integrated Photovoltaic-Battery-Based Islanded Microgrids. IEEE Transactions on Smart Grid, 2017, 8, 2837-2848.	9.0	60
234	Low-voltage ride-through of a droop-based three-phase four-wire grid-connected microgrid. IET Generation, Transmission and Distribution, 2018, 12, 1906-1914.	2.5	60

#	ARTICLE	IF	CITATIONS
235	Energy Management Strategy for Grid-Tied Microgrids Considering the Energy Storage Efficiency. IEEE Transactions on Industrial Electronics, 2018, 65, 9539-9549.	7.9	60
236	Energy Management System for an Islanded Microgrid With Convex Relaxation. IEEE Transactions on Industry Applications, 2019, 55, 7175-7185.	4.9	60
237	Frequency Stability of Hierarchically Controlled Hybrid Photovoltaic-Battery-Hydropower Microgrids. IEEE Transactions on Industry Applications, 2015, 51, 4729-4742.	4.9	59
238	Distributed cooperative synchronization strategy for multi-bus microgrids. International Journal of Electrical Power and Energy Systems, 2017, 86, 18-28.	5.5	59
239	A Flexible Power Control Strategy for Hybrid AC/DC Zones of Shipboard Power System With Distributed Energy Storages. IEEE Transactions on Industrial Informatics, 2018, 14, 5496-5508.	11.3	58
240	A Comprehensive Inertial Control Strategy for Hybrid AC/DC Microgrid With Distributed Generations. IEEE Transactions on Smart Grid, 2020, 11, 1737-1747.	9.0	58
241	Transient Monitoring Function-Based Fault Detection for Inverter-Interfaced Microgrids. IEEE Transactions on Smart Grid, 2016, , 1-1.	9.0	57
242	Improved droop control strategy for grid-connected inverters. Sustainable Energy, Grids and Networks, 2015, 1, 10-19.	3.9	56
243	An improved power control strategy for hybrid AC-DC microgrids. International Journal of Electrical Power and Energy Systems, 2018, 95, 364-373.	5.5	56
244	AC Ship Microgrids: Control and Power Management Optimization. Energies, 2018, 11, 1458.	3.1	56
245	Resilience improvement planning of power-water distribution systems with multiple microgrids against hurricanes using clean strategies. Journal of Cleaner Production, 2019, 223, 109-126.	9.3	56
246	All-Pass-Filter-Based PLL Systems: Linear Modeling, Analysis, and Comparative Evaluation. IEEE Transactions on Power Electronics, 2020, 35, 3558-3572.	7.9	56
247	Large-Signal Stability Improvement of DC-DC Converters in DC Microgrid. IEEE Transactions on Energy Conversion, 2021, 36, 2534-2544.	5.2	56
248	Microgrid central controller development and hierarchical control implementation in the intelligent microgrid lab of Aalborg University. , 2015, , .		55
249	Stochastic Predictive Control of Multi-Microgrid Systems. IEEE Transactions on Industry Applications, 2019, 55, 5311-5319.	4.9	55
250	Optimization-Based Power and Energy Management System in Shipboard Microgrid: A Review. IEEE Systems Journal, 2022, 16, 578-590.	4.6	55
251	Designing VRM Hysteretic Controllers for Optimal Transient Response. IEEE Transactions on Industrial Electronics, 2007, 54, 1726-1738.	7.9	54
252	Application of a microgrid with renewables for a water treatment plant. Applied Energy, 2014, 134, 20-34.	10.1	54

#	ARTICLE	IF	CITATIONS
253	A Review of DC Shipboard Microgridsâ€”Part II: Control Architectures, Stability Analysis, and Protection Schemes. IEEE Transactions on Power Electronics, 2022, 37, 4105-4120.	7.9	54
254	Improved control strategy for the threeâ€”phase gridâ€”connected inverter. IET Renewable Power Generation, 2015, 9, 587-592.	3.1	53
255	A Systematic Approach to Design High-Order Phase-Locked Loops. IEEE Transactions on Power Electronics, 2015, 30, 2885-2890.	7.9	53
256	A microgrid cluster structure and its autonomous coordination control strategy. International Journal of Electrical Power and Energy Systems, 2018, 100, 69-80.	5.5	53
257	A Virtual-Impedance Droop Control for Accurate Active Power Control and Reactive Power Sharing Using Capacitive-Coupling Inverters. IEEE Transactions on Industry Applications, 2020, 56, 6722-6733.	4.9	53
258	A hierarchical energy management system for islanded multi-microgrid clusters considering frequency security constraints. International Journal of Electrical Power and Energy Systems, 2020, 121, 106134.	5.5	53
259	Scalable Solar dc Micrigrids: On the Path to Revolutionizing the Electrification Architecture of Developing Communities. IEEE Electrification Magazine, 2018, 6, 63-72.	1.8	52
260	Power flow modeling of islanded AC microgrids with hierarchical control. International Journal of Electrical Power and Energy Systems, 2019, 105, 28-36.	5.5	52
261	Compromised Controller Design for Current Sharing and Voltage Regulation in DC Microgrid. IEEE Transactions on Power Electronics, 2019, 34, 8045-8061.	7.9	52
262	Comprehensive Review on Renewable Energy Sources in Egyptâ€”Current Status, Grid Codes and Future Vision. IEEE Access, 2022, 10, 4081-4101.	4.2	52
263	Towards collective energy Community: Potential roles of microgrid and blockchain to go beyond P2P energy trading. Applied Energy, 2022, 314, 119003.	10.1	52
264	Dynamic Equivalent Modeling for Multi-Microgrid Based on Structure Preservation Method. IEEE Transactions on Smart Grid, 2019, 10, 3929-3942.	9.0	51
265	An Energy Management System of Campus Microgrids: State-of-the-Art and Future Challenges. Energies, 2021, 14, 6525.	3.1	51
266	Hybrid Synchronous/Stationary Reference-Frame-Filtering-Based PLL. IEEE Transactions on Industrial Electronics, 2015, 62, 5018-5022.	7.9	50
267	Modeling and Stability Analysis of Inverter-Based Microgrid Under Harmonic Conditions. IEEE Transactions on Smart Grid, 2020, 11, 1330-1342.	9.0	50
268	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.	7.9	49
269	Economic demand response model in liberalised electricity markets with respect to flexibility of consumers. IET Generation, Transmission and Distribution, 2017, 11, 4291-4298.	2.5	49
270	Study of the Effect of Time-Based Rate Demand Response Programs on Stochastic Day-Ahead Energy and Reserve Scheduling in Islanded Residential Microgrids. Applied Sciences (Switzerland), 2017, 7, 378.	2.5	49

#	ARTICLE	IF	CITATIONS
271	Parameter Stability Region Analysis of Islanded Microgrid Based on Bifurcation Theory. IEEE Transactions on Smart Grid, 2019, 10, 6580-6591.	9.0	49
272	Distributed Control of Low-Voltage Resistive AC Microgrids. IEEE Transactions on Energy Conversion, 2019, 34, 573-584.	5.2	49
273	Model Predictive Voltage and Power Control of Islanded PV-Battery Microgrids With Washout-Filter-Based Power Sharing Strategy. IEEE Transactions on Power Electronics, 2020, 35, 1227-1238.	7.9	49
274	Recent Developments and Challenges on AC Microgrids Fault Detection and Protection Systems—A Review. Energies, 2020, 13, 2149.	3.1	49
275	Reduced-Order Generalized Proportional Integral Observer-Based Resonant Super-Twisting Sliding Mode Control for Grid-Connected Power Converters. IEEE Transactions on Industrial Electronics, 2021, 68, 5897-5908.	7.9	49
276	Steady-State Linear Kalman Filter-Based PLLs for Power Applications: A Second Look. IEEE Transactions on Industrial Electronics, 2018, 65, 9795-9800.	7.9	48
277	Active Power Quality Improvement Strategy for Grid-Connected Microgrid Based on Hierarchical Control. IEEE Transactions on Smart Grid, 2018, 9, 3486-3495.	9.0	48
278	A Dynamic Consensus Algorithm to Adjust Virtual Impedance Loops for Discharge Rate Balancing of AC Microgrid Energy Storage Units. IEEE Transactions on Smart Grid, 2018, 9, 4847-4860.	9.0	48
279	Voltage Stabilization: A Critical Step Toward High Photovoltaic Penetration. IEEE Industrial Electronics Magazine, 2019, 13, 17-30.	2.6	48
280	Passivity-Based Design of Grid-Side Current-Controlled LCL-Type Grid-Connected Inverters. IEEE Transactions on Power Electronics, 2020, 35, 9813-9823.	7.9	48
281	Adaptive Droop Control Using Adaptive Virtual Impedance for Microgrids With Variable PV Outputs and Load Demands. IEEE Transactions on Industrial Electronics, 2021, 68, 9630-9640.	7.9	48
282	A Comprehensive Review of Control Strategies and Optimization Methods for Individual and Community Microgrids. IEEE Access, 2022, 10, 15935-15955.	4.2	48
283	Droop-controlled inverters with seamless transition between islanding and grid-connected operations. , 2011, , .		47
284	Stability, power sharing, & distributed secondary control in droop-controlled microgrids. , 2013, , .		47
285	Power management techniques for grid-connected DC microgrids: A comparative evaluation. Applied Energy, 2020, 269, 115057.	10.1	47
286	Future Greener Seaports: A Review of New Infrastructure, Challenges, and Energy Efficiency Measures. IEEE Access, 2021, 9, 75568-75587.	4.2	47
287	Decentralized transactive energy community in edge grid with positive buildings and interactive electric vehicles. International Journal of Electrical Power and Energy Systems, 2022, 135, 107510.	5.5	47
288	Virtual Admittance Loop for Voltage Harmonic Compensation in Microgrids. IEEE Transactions on Industry Applications, 2016, 52, 3348-3356.	4.9	46

#	ARTICLE	IF	CITATIONS
289	Mode-triggered droop method for the decentralized energy management of an islanded hybrid PV/hydrogen/battery DC microgrid. <i>Energy</i> , 2020, 199, 117441.	8.8	46
290	A True Open-Loop Synchronization Technique. <i>IEEE Transactions on Industrial Informatics</i> , 2016, 12, 1093-1103.	11.3	45
291	Robust Grid-Current-Feedback Resonance Suppression Method for LCL-Type Grid-Connected Inverter Connected to Weak Grid. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2018, 6, 2126-2137.	5.4	45
292	An Adaptive Resonant Regulator for Single-Phase Grid-Tied VSCs. <i>IEEE Transactions on Power Electronics</i> , 2018, 33, 1867-1873.	7.9	45
293	Integration and Decentralized Control of Standalone Solar Home Systems for Off-Grid Community Applications. <i>IEEE Transactions on Industry Applications</i> , 2019, 55, 7240-7250.	4.9	45
294	Pinning-Based Hierarchical and Distributed Cooperative Control for AC Microgrid Clusters. <i>IEEE Transactions on Power Electronics</i> , 2020, 35, 9865-9885.	7.9	45
295	Sliding mode controller-based switched-capacitor-based high DC gain and low voltage stress DC-DC boost converter for photovoltaic applications. <i>International Journal of Electrical Power and Energy Systems</i> , 2021, 125, 106496.	5.5	45
296	dq -Frame Impedance Modeling of Three-Phase Grid-Tied Voltage Source Converters Equipped With Advanced PLLs. <i>IEEE Transactions on Power Electronics</i> , 2021, 36, 3524-3539.	7.9	45
297	System-Level Large-Signal Stability Analysis of Droop-Controlled DC Microgrids. <i>IEEE Transactions on Power Electronics</i> , 2021, 36, 4224-4236.	7.9	45
298	Control strategy of interlinking converters as the key segment of hybrid AC-DC microgrids. <i>IET Generation, Transmission and Distribution</i> , 2016, 10, 1671-1681.	2.5	44
299	Multiagent-Based Reactive Power Sharing and Control Model for Islanded Microgrids. <i>IEEE Transactions on Sustainable Energy</i> , 2016, 7, 1232-1244.	8.8	44
300	Coordination of EVs Participation for Load Frequency Control in Isolated Microgrids. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 539.	2.5	44
301	A Direct Maximum Power Point Tracking Method for Single-Phase Grid-Connected PV Inverters. <i>IEEE Transactions on Power Electronics</i> , 2018, 33, 8961-8971.	7.9	44
302	Ripple Mitigation With Improved Line-Load Transients Response in a Two-Stage DC-DC-AC Converter: Adaptive SMC Approach. <i>IEEE Transactions on Industrial Electronics</i> , 2018, 65, 3125-3135.	7.9	44
303	Coordinated control of multifunctional inverters for voltage support and harmonic compensation in a grid-connected microgrid. <i>Electric Power Systems Research</i> , 2018, 155, 254-264.	3.6	44
304	Microgrids Literature Review through a Layers Structure. <i>Energies</i> , 2019, 12, 4381.	3.1	44
305	Decentralized Control for Parallel Operation of Distributed Generation Inverters in Microgrids Using Resistive Output Impedance. <i>Industrial Electronics Society (IECON), Annual Conference of IEEE</i> , 2006, , .	0.0	43
306	Distributed Secondary Control and Management of Islanded Microgrids via Dynamic Weights. <i>IEEE Transactions on Smart Grid</i> , 2019, 10, 2196-2207.	9.0	43

#	ARTICLE	IF	CITATIONS
307	Selective compensation of voltage harmonics in grid-connected microgrids. <i>Mathematics and Computers in Simulation</i> , 2013, 91, 211-228.	4.4	42
308	Analysis and Design of Improved Weighted Average Current Control Strategy for LCL-Type Grid-Connected Inverters. <i>IEEE Transactions on Energy Conversion</i> , 2017, 32, 941-952.	5.2	42
309	Small-Signal Stability Analysis and Optimal Parameters Design of Microgrid Clusters. <i>IEEE Access</i> , 2019, 7, 36896-36909.	4.2	42
310	A Novel Model Predictive Control Strategy to Eliminate Zero-Sequence Circulating Current in Paralleled Three-Level Inverters. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2019, 7, 309-320.	5.4	42
311	A New "Doctor and Patient" Optimization Algorithm: An Application to Energy Commitment Problem. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 5791.	2.5	42
312	Coordinated Secondary Control for Balanced Discharge Rate of Energy Storage System in Islanded AC Microgrids. <i>IEEE Transactions on Industry Applications</i> , 2016, 52, 5019-5028.	4.9	41
313	Single-Phase Phase-Locked Loop Based on Derivative Elements. <i>IEEE Transactions on Power Electronics</i> , 2017, 32, 4411-4420.	7.9	41
314	A novel quasi-master-slave control frame for PV-storage independent microgrid. <i>International Journal of Electrical Power and Energy Systems</i> , 2018, 97, 262-274.	5.5	41
315	Large Photovoltaic Power Plants Integration: A Review of Challenges and Solutions. <i>Energies</i> , 2019, 12, 3798.	3.1	41
316	Overload and Short-Circuit Protection Strategy for Voltage Source Inverter-Based UPS. <i>IEEE Transactions on Power Electronics</i> , 2019, 34, 11371-11382.	7.9	41
317	Stochastic Predictive Energy Management of Multi-Microgrid Systems. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4833.	2.5	41
318	A comprehensive overview of framework for developing sustainable energy internet: From things-based energy network to services-based management system. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 150, 111409.	16.4	41
319	P2P energy trading: Blockchain-enabled P2P energy society with multi-scale flexibility services. <i>Energy Reports</i> , 2022, 8, 3614-3628.	5.1	41
320	Distributed consensus-based control of multiple DC-microgrids clusters. , 2014, , .		40
321	Flexible System Integration and Advanced Hierarchical Control Architectures in the Microgrid Research Laboratory of Aalborg University. <i>IEEE Transactions on Industry Applications</i> , 2015, , 1-1.	4.9	40
322	Conventional P-%/Q-V Droop Control in Highly Resistive Line of Low-Voltage Converter-Based AC Microgrid. <i>Energies</i> , 2016, 9, 943.	3.1	40
323	A GPS-Based Decentralized Control Method for Islanded Microgrids. <i>IEEE Transactions on Power Electronics</i> , 2017, 32, 1615-1625.	7.9	40
324	New Metrics for Evaluating Technical Benefits and Risks of DGs Increasing Penetration. <i>IEEE Transactions on Smart Grid</i> , 2017, 8, 2890-2902.	9.0	40

#	ARTICLE	IF	CITATIONS
325	A Unified Voltage Harmonic Control Strategy for Coordinated Compensation With VCM and CCM Converters. IEEE Transactions on Power Electronics, 2018, 33, 7132-7147.	7.9	40
326	Enhancement of Frequency Regulation in AC Microgrid: A Fuzzy-MPC Controlled Virtual Synchronous Generator. IEEE Transactions on Smart Grid, 2021, 12, 3138-3149.	9.0	40
327	A New Synchronous Reference Frame-Based Method for Single-Phase Shunt Active Power Filters. Journal of Power Electronics, 2013, 13, 692-700.	1.5	39
328	Protection of AC and DC microgrids: Challenges, solutions and future trends. , 2015, , .		39
329	Discrete-Time Domain Modeling of Voltage Source Inverters in Standalone Applications: Enhancement of Regulators Performance by Means of Smith Predictor. IEEE Transactions on Power Electronics, 2017, 32, 8100-8114.	7.9	39
330	A GPS-Based Control Framework for Accurate Current Sharing and Power Quality Improvement in Microgrids. IEEE Transactions on Power Electronics, 2017, 32, 5675-5687.	7.9	39
331	A Stochastic Bi-Level Scheduling Approach for the Participation of EV Aggregators in Competitive Electricity Markets. Applied Sciences (Switzerland), 2017, 7, 1100.	2.5	39
332	Extended-Optimal-Power-Flow-Based Hierarchical Control for Islanded AC Microgrids. IEEE Transactions on Power Electronics, 2019, 34, 840-848.	7.9	39
333	A New Decentralized Control Strategy of Microgrids in the Internet of Energy Paradigm. Energies, 2021, 14, 2183.	3.1	39
334	Robust scenario-based concept for stochastic energy management of an energy hub contains intelligent parking lot considering convexity principle of CHP nonlinear model with triple operational zones. Sustainable Cities and Society, 2021, 68, 102795.	10.4	39
335	Impedance Analysis and Stabilization of Virtual Synchronous Generators With Different DC-Link Voltage Controllers Under Weak Grid. IEEE Transactions on Power Electronics, 2021, 36, 11397-11408.	7.9	38
336	Adaptive LFC Incorporating Modified Virtual Rotor to Regulate Frequency and Tie-Line Power Flow in Multi-Area Microgrids. IEEE Access, 2022, 10, 33248-33268.	4.2	38
337	Macroprotections for Microgrids: Toward a New Protection Paradigm Subsequent to Distributed Energy Resource Integration. IEEE Industrial Electronics Magazine, 2016, 10, 6-18.	2.6	37
338	Model predictive control methods of leakage current elimination for a three-level T&E-type transformerless PV inverter. IET Power Electronics, 2018, 11, 1492-1498.	2.1	37
339	Probabilistic optimal power flow in islanded microgrids with load, wind and solar uncertainties including intermittent generation spatial correlation. Energy, 2021, 222, 119847.	8.8	37
340	New Challenges in the Design of Microgrid Systems: Communication Networks, Cyberattacks, and Resilience. IEEE Electrification Magazine, 2020, 8, 98-106.	1.8	37
341	Design of an Analog Quasi-Steady-State Nonlinear Current-Mode Controller for Single-Phase Active Power Filter. IEEE Transactions on Industrial Electronics, 2009, 56, 4872-4881.	7.9	36
342	Smart grid and renewable energy systems. , 2011, , .		36

#	ARTICLE	IF	CITATIONS
343	Centralized Disturbance Detection in Smart Microgrids With Noisy and Intermittent Synchrophasor Data. IEEE Transactions on Smart Grid, 2017, 8, 2775-2783.	9.0	36
344	A Root-Locus Design Methodology Derived From the Impedance/Admittance Stability Formulation and Its Application for LCL Grid-Connected Converters in Wind Turbines. IEEE Transactions on Power Electronics, 2017, 32, 8218-8228.	7.9	36
345	Performance improvement of shunt active power filter based on non-linear least-square approach. Electric Power Systems Research, 2018, 160, 44-55.	3.6	36
346	An Open-Loop Grid Synchronization Approach for Single-Phase Applications. IEEE Transactions on Power Electronics, 2018, 33, 5548-5555.	7.9	36
347	Dynamic Assessment of COTS Converters-Based DC Integrated Power Systems in Electric Ships. IEEE Transactions on Industrial Informatics, 2018, 14, 5518-5529.	11.3	36
348	Fuzzy-logic-based gain-scheduling control for state-of-charge balance of distributed energy storage systems for DC microgrids. , 2014, , .		35
349	A knowledge discovery in databases approach for industrial microgrid planning. Renewable and Sustainable Energy Reviews, 2016, 60, 615-630.	16.4	35
350	Grid-Tied Photovoltaic and Battery Storage Systems with Malaysian Electricity Tariffâ€”A Review on Maximum Demand Shaving. Energies, 2017, 10, 1884.	3.1	35
351	Grid simulator for power quality assessment of microâ€”grids. IET Power Electronics, 2013, 6, 700-709.	2.1	34
352	Robust two degreesâ€”ofâ€”freedom singleâ€”current control strategy for LCLâ€”type gridâ€”connected DG system under gridâ€”frequency fluctuation and gridâ€”impedance variation. IET Power Electronics, 2016, 9, 2682-2691.	2.1	34
353	A DC Microgrid Coordinated Control Strategy Based on Integrator Current-Sharing. Energies, 2017, 10, 1116.	3.1	34
354	Research On Variable-Length Transfer Delay and Delayed-Signal-Cancellation-Based PLLs. IEEE Transactions on Power Electronics, 2018, 33, 8388-8398.	7.9	34
355	Single-Phase FLLs Based on Linear Kalman Filter, Limit-Cycle Oscillator, and Complex Bandpass Filter: Analysis and Comparison With a Standard FLL in Grid Applications. IEEE Transactions on Power Electronics, 2019, 34, 11774-11790.	7.9	34
356	Operation Control for Improving Energy Efficiency of Shipboard Microgrid Including Bow Thrusters and Hybrid Energy Storages. IEEE Transactions on Transportation Electrification, 2020, 6, 856-868.	7.8	34
357	A Novel Internet of Energy Based Optimal Multi-Agent Control Scheme for Microgrid including Renewable Energy Resources. International Journal of Environmental Research and Public Health, 2021, 18, 8146.	2.6	34
358	Binary Spring Search Algorithm for Solving Various Optimization Problems. Applied Sciences (Switzerland), 2021, 11, 1286.	2.5	34
359	Eventâ€”triggered hybrid control based on multiâ€”agent system for microgrids. IET Generation, Transmission and Distribution, 2014, 8, 1987-1997.	2.5	33
360	Study of large-signal stability of an inverter-based generator using a Lyapunov function. , 2014, , .		33

#	ARTICLE	IF	CITATIONS
361	Grid-forming VSC control in four-wire systems with unbalanced nonlinear loads. <i>Electric Power Systems Research</i> , 2017, 152, 249-256.	3.6	33
362	Coordinated Control of a Hybrid-Electric-Ferry Shipboard Microgrid. <i>IEEE Transactions on Transportation Electrification</i> , 2019, 5, 828-839.	7.8	33
363	An optimized direct control method applied to multilevel inverter for microgrid power quality enhancement. <i>International Journal of Electrical Power and Energy Systems</i> , 2019, 107, 496-506.	5.5	33
364	Resilient Design of Robust Multi-Objectives PID Controllers for Automatic Voltage Regulators: D-Decomposition Approach. <i>IEEE Access</i> , 2021, 9, 106589-106605.	4.2	33
365	A Novel Real-Time Electricity Scheduling for Home Energy Management System Using the Internet of Energy. <i>Energies</i> , 2021, 14, 3191.	3.1	33
366	Distributed Event-Triggered Control for Reactive, Unbalanced, and Harmonic Power Sharing in Islanded AC Microgrids. <i>IEEE Transactions on Industrial Electronics</i> , 2022, 69, 1548-1560.	7.9	33
367	Second order generalized integrator based reference current generation method for single-phase shunt active power filters under adverse grid conditions. , 2013, , .		32
368	An Analysis of the PLLs With Secondary Control Path. <i>IEEE Transactions on Industrial Electronics</i> , 2014, 61, 4824-4828.	7.9	32
369	Energy management system based on fuzzy fractional order PID controller for transient stability improvement in microgrids with energy storage. <i>International Transactions on Electrical Energy Systems</i> , 2016, 26, 2087-2106.	1.9	32
370	Multi-Agent System-Based Event-Triggered Hybrid Control Scheme for Energy Internet. <i>IEEE Access</i> , 2017, 5, 3263-3272.	4.2	32
371	A PLL-Based Controller for Three-Phase Grid-Connected Power Converters. <i>IEEE Transactions on Power Electronics</i> , 2018, 33, 911-916.	7.9	32
372	Peer-to-Peer Energy Market for Community Microgrids [Technology Leaders]. <i>IEEE Electrification Magazine</i> , 2018, 6, 102-107.	1.8	32
373	Security-constrained unit commitment in AC microgrids considering stochastic price-based demand response and renewable generation. <i>International Transactions on Electrical Energy Systems</i> , 2018, 28, e2596.	1.9	32
374	Advanced Single-Phase DSC-Based PLLs. <i>IEEE Transactions on Power Electronics</i> , 2019, 34, 3226-3238.	7.9	32
375	Modeling and Stability Assessment of Single-Phase Grid Synchronization Techniques: Linear Time-Periodic Versus Linear Time-Invariant Frameworks. <i>IEEE Transactions on Power Electronics</i> , 2019, 34, 20-27.	7.9	32
376	Multirate Resonant Controllers for Grid-Connected Inverters With Harmonic Compensation Function. <i>IEEE Transactions on Industrial Electronics</i> , 2019, 66, 8981-8991.	7.9	32
377	Consensus Algorithm-based Coalition Game Theory for Demand Management Scheme in Smart Microgrid. <i>Sustainable Cities and Society</i> , 2021, 74, 103248.	10.4	32
378	Review of Power Quality Issues in Maritime Microgrids. <i>IEEE Access</i> , 2021, 9, 81798-81817.	4.2	32

#	ARTICLE	IF	CITATIONS
379	Input-Admittance Passivity Compliance for Grid-Connected Converters With an LCL Filter. IEEE Transactions on Industrial Electronics, 2019, 66, 1089-1097.	7.9	31
380	Energy Harvesting From Harbor Cranes With Flywheel Energy Storage Systems. IEEE Transactions on Industry Applications, 2019, 55, 3354-3364.	4.9	31
381	Stochastic Consensus-Based Control of μ SGs With Communication Delays and Noises. IEEE Transactions on Power Systems, 2019, 34, 3573-3581.	6.5	31
382	Protection of LVDC Microgrids in Grid-Connected and Islanded Modes Using Bifurcation Theory. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 2597-2604.	5.4	31
383	Design of power quality enhanced sustainable bidirectional electric vehicle charging station in distribution grid. Sustainable Cities and Society, 2021, 74, 103242.	10.4	31
384	Multi-functional distributed generation unit for power quality enhancement. IET Power Electronics, 2015, 8, 467-476.	2.1	30
385	Analysis, control and experimental verification of a single-phase capacitive coupling grid-connected inverter. IET Power Electronics, 2015, 8, 770-782.	2.1	30
386	Optimal planning and operation management of a ship electrical power system with energy storage system. , 2016, , .		30
387	Using smart meters data for energy management operations and power quality monitoring in a microgrid. , 2017, , .		30
388	Performance Improvement of the Unbalanced Voltage Compensation in Islanded Microgrid Based on Small-Signal Analysis. IEEE Transactions on Industrial Electronics, 2020, 67, 5531-5542.	7.9	30
389	Fault Management in DC Microgrids: A Review of Challenges, Countermeasures, and Future Research Trends. IEEE Access, 2021, 9, 128032-128054.	4.2	30
390	MPC-informed ECMS based real-time power management strategy for hybrid electric ship. Energy Reports, 2021, 7, 126-133.	5.1	30
391	A review of reactive power sharing control techniques for islanded microgrids. Renewable and Sustainable Energy Reviews, 2021, 141, 110745.	16.4	30
392	Distributed Power Sharing Control for Islanded Single-/Three-Phase Microgrids With Admissible Voltage and Energy Storage Constraints. IEEE Transactions on Smart Grid, 2021, 12, 2760-2775.	9.0	30
393	False Data Injection Cyber-Attacks Detection for Multiple DC Microgrid Clusters. Applied Energy, 2022, 310, 118425.	10.1	30
394	Real-time Energy Management System for a hybrid AC/DC residential microgrid. , 2017, , .		29
395	Improved P-f/Q-V and P-V/Q-f droop controllers for parallel distributed generation inverters in AC microgrid. Sustainable Cities and Society, 2018, 41, 421-442.	10.4	29
396	A NEW METHODOLOGY CALLED DICE GAME OPTIMIZER FOR CAPACITOR PLACEMENT IN DISTRIBUTION SYSTEMS. Electrical Engineering & Electromechanics, 2020, .	0.6	29

#	ARTICLE	IF	CITATIONS
397	Adaptive droop control applied to distributed generation inverters connected to the grid. , 2008, , .		28
398	Distributed energy resources in grid interactive AC microgrids. , 2010, , .		28
399	Selective harmonic virtual impedance for voltage source inverters with LCL filter in microgrids. , 2012, , .		28
400	Optimization with system damping restoration for droop controlled DC-DC converters. , 2013, , .		28
401	Microgrid Stability Controller Based on Adaptive Robust Total SMC. <i>Energies</i> , 2015, 8, 1784-1801.	3.1	28
402	Stabilizing plug-and-play regulators and secondary coordinated control for AC islanded microgrids with bus-connected topology. <i>Applied Energy</i> , 2018, 210, 914-924.	10.1	28
403	Optimal Decision-Making Strategy of an Electric Vehicle Aggregator in Short-Term Electricity Markets. <i>Energies</i> , 2018, 11, 2413.	3.1	28
404	Microgrid Transactive Energy Systems: A Perspective on Design, Technologies, and Energy Markets. , 2019, , .		28
405	A Novel Smart Energy Management as a Service over a Cloud Computing Platform for Nanogrid Appliances. <i>Sustainability</i> , 2020, 12, 9686.	3.2	28
406	DM: Dehghani Method for Modifying Optimization Algorithms. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7683.	2.5	28
407	Adaptive-SMC Based Output Impedance Shaping in DC Microgrids Affected by Inverter Loads. <i>IEEE Transactions on Sustainable Energy</i> , 2020, 11, 2940-2949.	8.8	28
408	A Communication-Less Multimode Control Approach for Adaptive Power Sharing in Ship-Based Seaport Microgrid. <i>IEEE Transactions on Transportation Electrification</i> , 2021, 7, 3070-3082.	7.8	28
409	Energy management system for a hybrid PV-Wind-Tidal-Battery-based islanded DC microgrid: Modeling and experimental validation. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 159, 112093.	16.4	28
410	Marketability analysis of green hydrogen production in Denmark: Scale-up effects on grid-connected electrolysis. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 12443-12455.	7.1	28
411	Modeling and Experimental Validation of an Islanded No-Inertia Microgrid Site. <i>IEEE Transactions on Sustainable Energy</i> , 2018, 9, 1812-1821.	8.8	27
412	Adaptive CDSC-Based Open-Loop Synchronization Technique for Dynamic Response Enhancement of Active Power Filters. <i>IEEE Access</i> , 2019, 7, 96743-96752.	4.2	27
413	Passivity-Based Design of Repetitive Controller for \$LCL\$-Type Grid-Connected Inverters Suitable for Microgrid Applications. <i>IEEE Transactions on Power Electronics</i> , 2021, 36, 2420-2431.	7.9	27
414	Using deep learning and meteorological parameters to forecast the photovoltaic generators intra-hour output power interval for smart grid control. <i>Energy</i> , 2022, 239, 122116.	8.8	27

#	ARTICLE	IF	CITATIONS
415	Capacitor Current Feedback-Based Active Resonance Damping Strategies for Digitally-Controlled Inductive-Capacitive-Inductive-Filtered Grid-Connected Inverters. <i>Energies</i> , 2016, 9, 642.	3.1	26
416	Smart Shipboard Power System Operation and Management. <i>Inventions</i> , 2016, 1, 22.	2.5	26
417	Second Ripple Current Suppression by Two Bandpass Filters and Current Sharing Method for Energy Storage Converters in DC Microgrid. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2017, 5, 1031-1044.	5.4	26
418	A stochastic bi-level decision-making framework for a load-serving entity in day-ahead and balancing markets. <i>International Transactions on Electrical Energy Systems</i> , 2019, 29, e12109.	1.9	26
419	Modulated Model Predictive Control for Modular Multilevel AC/AC Converter. <i>IEEE Transactions on Power Electronics</i> , 2019, 34, 10359-10372.	7.9	26
420	AC Microgrid Small-Signal Modeling: Hierarchical Control Structure Challenges and Solutions. <i>IEEE Electrification Magazine</i> , 2019, 7, 81-88.	1.8	26
421	A novel Decoupled Trigonometric Saturated droop controller for power sharing in islanded low-voltage microgrids. <i>Electric Power Systems Research</i> , 2019, 168, 146-161.	3.6	26
422	Nonlinear adaptive control design with average performance analysis for photovoltaic system based on half bridge shunt active power filter. <i>International Journal of Electrical Power and Energy Systems</i> , 2021, 125, 106478.	5.5	26
423	Charging station Stochastic Programming for Hydrogen/Battery Electric Buses using Multi-Criteria Crow Search Algorithm. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 144, 111046.	16.4	26
424	The concept of direct adaptive control for improving voltage and frequency regulation loops in several power system applications. <i>International Journal of Electrical Power and Energy Systems</i> , 2022, 140, 108068.	5.5	26
425	A centralized control architecture for harmonic voltage suppression in islanded microgrids. , 2011, , .		25
426	Power flow analysis for droop controlled LV hybrid AC-DC microgrids with virtual impedance. , 2014, , .		25
427	Hierarchical control for multiple DC-microgrids clusters. , 2014, , .		25
428	Effect of placement of droop based generators in distribution network on small signal stability margin and network loss. <i>International Journal of Electrical Power and Energy Systems</i> , 2017, 88, 108-118.	5.5	25
429	Hierarchical Delay-Dependent Distributed Coordinated Control for DC Ring-Bus Microgrids. <i>IEEE Access</i> , 2017, 5, 10130-10140.	4.2	25
430	Potential energy savings by using direct current for residential applications: A Danish household study case. , 2017, , .		25
431	Matrix pencil method-based reference current generation for shunt active power filters. <i>IET Power Electronics</i> , 2018, 11, 772-780.	2.1	25
432	Phase Compensated Reduced Order Generalized Integrators for Grid-Tied VSCs With Harmonics Compensation Capability. <i>IEEE Transactions on Industry Applications</i> , 2018, 54, 2568-2578.	4.9	25

#	ARTICLE	IF	CITATIONS
433	Flat tie-line power scheduling control of grid-connected hybrid microgrids. <i>Applied Energy</i> , 2018, 210, 786-799.	10.1	25
434	Optimal operation management of a regional network of microgrids based on chance-constrained model predictive control. <i>IET Generation, Transmission and Distribution</i> , 2018, 12, 3772-3779.	2.5	25
435	Effect of phase-locked loop on small-signal perturbation modelling and stability analysis for three-phase LCL-type inverter connected to weak grid. <i>IET Renewable Power Generation</i> , 2019, 13, 86-93.	3.1	25
436	A New Two-Stage Algorithm for Solving Optimization Problems. <i>Entropy</i> , 2021, 23, 491.	2.2	25
437	Power-flow-based energy management of hierarchically controlled islanded AC microgrids. <i>International Journal of Electrical Power and Energy Systems</i> , 2022, 141, 108140.	5.5	25
438	Hierarchical control scheme for voltage Harmonics Compensation in an islanded droop-controlled microgrid. , 2011, , .		24
439	Guest Editorial: Special Section on Smart DC Distribution Systems. <i>IEEE Transactions on Smart Grid</i> , 2014, 5, 2473-2475.	9.0	24
440	Modeling and design of a multivariable control system for multi-paralleled grid-connected inverters with LCL filter. <i>International Journal of Electrical Power and Energy Systems</i> , 2018, 94, 354-362.	5.5	24
441	Non-Ideal Proportional Resonant Control for Modular Multilevel Converters Under Sub-Module Fault Conditions. <i>IEEE Transactions on Energy Conversion</i> , 2019, 34, 1741-1750.	5.2	24
442	Fault-Tolerant Oriented Hierarchical Control and Configuration of Modular Multilevel Converter for Shipboard MVdc System. <i>IEEE Transactions on Industrial Informatics</i> , 2019, 15, 4525-4535.	11.3	24
443	Nonlinear control and stability analysis of single stage grid-connected photovoltaic systems. <i>International Journal of Electrical Power and Energy Systems</i> , 2020, 115, 105439.	5.5	24
444	An online energy management system for AC/DC residential microgrids supported by non-intrusive load monitoring. <i>Applied Energy</i> , 2022, 307, 118136.	10.1	24
445	Optimal utilization of microgrids supplemented with battery energy storage systems in grid support applications. , 2015, , .		23
446	Adaptive virtual impedance scheme for selective compensation of voltage unbalance and harmonics in microgrids. , 2015, , .		23
447	An improved synchronous reference frame current control strategy for a photovoltaic grid-connected inverter under unbalanced and nonlinear load conditions. <i>PLoS ONE</i> , 2017, 12, e0164856.	2.5	23
448	Adaptive Control Design for Autonomous Operation of Multiple Energy Storage Systems in Power Smoothing Applications. <i>IEEE Transactions on Industrial Electronics</i> , 2018, 65, 6612-6624.	7.9	23
449	An optimal market-oriented demand response model for price-responsive residential consumers. <i>Energy Efficiency</i> , 2019, 12, 803-815.	2.8	23
450	Virtual Positive-Damping Reshaped Impedance Stability Control Method for the Offshore MVDC System. <i>IEEE Transactions on Power Electronics</i> , 2019, 34, 4951-4966.	7.9	23

#	ARTICLE	IF	CITATIONS
451	Negative-Sequence Second-Order Circulating Current Injection for Hybrid MMC Under Over-Modulation Conditions. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 2508-2519.	5.4	23
452	Control of grid interactive AC microgrids. , 2010, , .		22
453	A D-Q synchronous frame controller for single-phase inverters. , 2011, , .		22
454	Optimization for Customized Power Quality Service in Multibus Microgrids. IEEE Transactions on Industrial Electronics, 2017, 64, 8767-8777.	7.9	22
455	Economic Power Schedule and Transactive Energy through an Intelligent Centralized Energy Management System for a DC Residential Distribution System. Energies, 2017, 10, 916.	3.1	22
456	Distributed secondary and tertiary controls for droop-controlled parallel DC-DC converters. IET Generation, Transmission and Distribution, 2018, 12, 1538-1546.	2.5	22
457	A Multi-Attribute Expansion Planning Model for Integrated Gas-Electricity System. Energies, 2018, 11, 2573.	3.1	22
458	Optimal sizing and performance evaluation of a renewable energy based microgrid in future seaports. , 2018, , .		22
459	Control of Hybrid Diesel/PV/Battery/Ultra-Capacitor Systems for Future Shipboard Microgrids. Energies, 2019, 12, 3460.	3.1	22
460	A Simple Method for Passivity Enhancement of Current Controlled Grid-Connected Inverters. IEEE Transactions on Power Electronics, 2020, 35, 7735-7741.	7.9	22
461	Stability Enhancing Voltage Feed-Forward Inverter Control Method to Reduce the Effects of Phase-Locked Loop and Grid Impedance. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 3000-3009.	5.4	22
462	Modular multilevel converter based multi-terminal hybrid AC/DC microgrid with improved energy control method. Applied Energy, 2021, 282, 116154.	10.1	22
463	Principle and Control Design of a Novel Hybrid Arc Suppression Device in Distribution Networks. IEEE Transactions on Industrial Electronics, 2022, 69, 41-51.	7.9	22
464	A Novel Droop Control Strategy of Reactive Power Sharing Based on Adaptive Virtual Impedance in Microgrids. IEEE Transactions on Industrial Electronics, 2022, 69, 11335-11347.	7.9	22
465	A Reference-Feedforward-Based Damping Method for Virtual Synchronous Generator Control. IEEE Transactions on Power Electronics, 2022, 37, 7566-7571.	7.9	22
466	Optimal Energy Management of a Campus Microgrid Considering Financial and Economic Analysis with Demand Response Strategies. Energies, 2021, 14, 8501.	3.1	22
467	A Comprehensive Review on Small Satellite Microgrids. IEEE Transactions on Power Electronics, 2022, 37, 12741-12762.	7.9	22
468	A new Internet of Things based optimization scheme of residential demand side management system. IET Renewable Power Generation, 2022, 16, 1992-2006.	3.1	22

#	ARTICLE	IF	CITATIONS
469	Secondary voltage control for harmonics suppression in islanded microgrids. , 2011, , .		21
470	General Unified Integral Controller With Zero Steady-State Error for Single-Phase Grid-Connected Inverters. IEEE Transactions on Smart Grid, 2016, 7, 74-83.	9.0	21
471	A comprehensive control system for multi-parallel grid-connected inverters with LCL filter in weak grid condition. Electric Power Systems Research, 2018, 163, 288-300.	3.6	21
472	A Stochastic Model Predictive Control Approach for Joint Operational Scheduling and Hourly Reconfiguration of Distribution Systems. Energies, 2018, 11, 1884.	3.1	21
473	Full Discrete Modeling, Controller Design, and Sensitivity Analysis for High-Performance Grid-Forming Converters in Islanded Microgrids. IEEE Transactions on Industry Applications, 2018, 54, 6267-6278.	4.9	21
474	Real-Time Load and Ancillary Support for a Remote Island Power System Using Electric Boats. IEEE Transactions on Industrial Informatics, 2020, 16, 1516-1528.	11.3	21
475	Power quality issues of smart microgrids: applied techniques and decision making analysis. , 2020, , 89-119.		21
476	Principle of Flexible Ground-Fault Arc Suppression Device Based on Zero-Sequence Voltage Regulation. IEEE Access, 2021, 9, 2382-2389.	4.2	21
477	Inertia Response Coordination Strategy of Wind Generators and Hybrid Energy Storage and Operation Cost-Based Multi-Objective Optimizing of Frequency Control Parameters. IEEE Access, 2021, 9, 74684-74702.	4.2	21
478	Optimal location of an electrical vehicle charging station in a local microgrid using an embedded hybrid optimizer. International Journal of Electrical Power and Energy Systems, 2021, 131, 106979.	5.5	21
479	Recent Trends, Challenges, and Future Aspects of P2P Energy Trading Platforms in Electrical-Based Networks Considering Blockchain Technology: A Roadmap Toward Environmental Sustainability. Frontiers in Energy Research, 2022, 10, .	2.3	21
480	Reduction of voltage harmonics for parallel-operated inverters. , 2011, , .		20
481	Optimized energy management of a single-house residential micro-grid with automated demand response. , 2015, , .		20
482	Generalized coupling resonance modeling, analysis, and active damping of multi-parallel inverters in microgrid operating in grid-connected mode. Journal of Modern Power Systems and Clean Energy, 2016, 4, 63-75.	5.4	20
483	Harmonic Issues Assessment on PWM VSC-Based Controlled Microgrids Using Newton Methods. IEEE Transactions on Smart Grid, 2018, 9, 1002-1011.	9.0	20
484	Dual-loop control strategy applied to the cluster of multiple nanogrids for rural electrification applications. IET Smart Grid, 2019, 2, 327-335.	2.2	20
485	Delay-Dependent Small-Signal Stability Analysis and Compensation Method for Distributed Secondary Control of Microgrids. IEEE Access, 2019, 7, 170919-170935.	4.2	20
486	Real-Time Supervisory Control for Power Quality Improvement of Multi-Area Microgrids. IEEE Systems Journal, 2019, 13, 864-874.	4.6	20

#	ARTICLE	IF	CITATIONS
487	Sustainable Rural Electrification Through Solar PV DC Microgrids—An Architecture-Based Assessment. <i>Processes</i> , 2020, 8, 1417.	2.8	20
488	Linear Time-Periodic Modeling, Examination, and Performance Enhancement of Grid Synchronization Systems With DC Component Rejection/Estimation Capability. <i>IEEE Transactions on Power Electronics</i> , 2021, 36, 4237-4253.	7.9	20
489	Reliability enhancement and voltage profile improvement of distribution network using optimal capacity allocation and placement of distributed energy resources. <i>Computers and Electrical Engineering</i> , 2021, 93, 107295.	4.8	20
490	Photovoltaic power plants in electrical distribution networks: a review on their impact and solutions. <i>IET Renewable Power Generation</i> , 2020, 14, 2114-2125.	3.1	20
491	Distributed noise-resilient economic dispatch strategy for islanded microgrids. <i>IET Generation, Transmission and Distribution</i> , 2019, 13, 3029-3039.	2.5	19
492	Power Quality Assessment in Shipboard Microgrids Under Unbalanced and Harmonic AC Bus Voltage. <i>IEEE Transactions on Industry Applications</i> , 2019, 55, 765-775.	4.9	19
493	Review of Dynamic Positioning Control in Maritime Microgrid Systems. <i>Energies</i> , 2020, 13, 3188.	3.1	19
494	IoT-enabled Microgrid for Intelligent Energy-aware Buildings: A Novel Hierarchical Self-consumption Scheme with Renewables. <i>Electronics (Switzerland)</i> , 2020, 9, 550.	3.1	19
495	Wavelet-Based Monitor for Grid Impedance Estimation of Three-Phase Networks. <i>IEEE Transactions on Industrial Electronics</i> , 2021, 68, 2564-2574.	7.9	19
496	Passivity Enhancement of Voltage-Controlled Inverters in Grid-Connected Microgrids Considering Negative Aspects of Control Delay and Grid Impedance Variations. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021, 9, 6637-6649.	5.4	19
497	Hybrid automaton-fuzzy control of single phase dual buck half bridge shunt active power filter for shoot through elimination and power quality improvement. <i>International Journal of Electrical Power and Energy Systems</i> , 2021, 131, 106986.	5.5	19
498	Space Microgrids for Future Manned Lunar Bases: A Review. <i>IEEE Open Access Journal of Power and Energy</i> , 2021, 8, 570-583.	3.4	19
499	Convergence and Interoperability for the Energy Internet: From Ubiquitous Connection to Distributed Automation. <i>IEEE Industrial Electronics Magazine</i> , 2020, 14, 91-105.	2.6	19
500	Droop based control of parallel-connected single-phase inverters in D-Q rotating frame. , 2009, , .		18
501	Fundamental impedance identification method for grid-connected voltage source inverters. <i>IET Power Electronics</i> , 2014, 7, 1099-1105.	2.1	18
502	Operation Cost Minimization of Droop-Controlled AC Microgrids Using Multiagent-Based Distributed Control. <i>Energies</i> , 2016, 9, 717.	3.1	18
503	Design and analysis of a transformerless STATCOM based on hybrid cascaded multilevel converter. <i>International Journal of Electrical Power and Energy Systems</i> , 2019, 104, 694-704.	5.5	18
504	A hybrid islanding detection technique for inverter-based distributed generator units. <i>International Transactions on Electrical Energy Systems</i> , 2019, 29, e12113.	1.9	18

#	ARTICLE	IF	CITATIONS
505	Distributed coordination control for suppressing circulating current in parallel inverters of islanded microgrid. IET Generation, Transmission and Distribution, 2019, 13, 968-975.	2.5	18
506	A Multi-Market-Driven Approach to Energy Scheduling of Smart Microgrids in Distribution Networks. Sustainability, 2019, 11, 301.	3.2	18
507	Coordinated Primary and Secondary Frequency Support Between Microgrid and Weak Grid. IEEE Transactions on Sustainable Energy, 2019, 10, 1718-1730.	8.8	18
508	Fault location in microgrids: a communication-based high-frequency impedance approach. IET Generation, Transmission and Distribution, 2019, 13, 1229-1237.	2.5	18
509	Genetic Algorithm for Energy Commitment in a Power System Supplied by Multiple Energy Carriers. Sustainability, 2020, 12, 10053.	3.2	18
510	Optimal use of vehicle-to-grid technology to modify the load profile of the distribution system. Journal of Energy Storage, 2020, 31, 101627.	8.1	18
511	Distributed Control of Multi-Functional Grid-Tied Inverters for Power Quality Improvement. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 918-928.	5.4	18
512	Attack detection design for dc microgrid using eigenvalue assignment approach. Energy Reports, 2021, 7, 469-476.	5.1	18
513	IoT Technology-Based Protection Scheme for MT-HVDC Transmission Grids With Restoration Algorithm Using Support Vector Machine. IEEE Access, 2021, 9, 86268-86284.	4.2	18
514	Using PV systems and parking lots to provide virtual inertia and frequency regulation provision in low inertia grids. Electric Power Systems Research, 2022, 207, 107859.	3.6	18
515	Highly efficient distributed generation and high-capacity energy storage. Chemical Engineering and Processing: Process Intensification, 2012, 51, 18-31.	3.6	17
516	An Analysis of Modified Demodulation-Based Grid Voltage Parameter Estimator. IEEE Transactions on Power Electronics, 2015, 30, 6528-6533.	7.9	17
517	A Coordinated Control for Photovoltaic Generators and Energy Storages in Low-Voltage AC/DC Hybrid Microgrids under Islanded Mode. Energies, 2016, 9, 651.	3.1	17
518	Optimal scheduling of distributed energy resources and responsive loads in islanded microgrids considering voltage and frequency security constraints. Journal of Renewable and Sustainable Energy, 2018, 10, .	2.0	17
519	Power quality enhancement and power management of a multifunctional interfacing inverter for PV and battery energy storage system. International Transactions on Electrical Energy Systems, 2018, 28, e2643.	1.9	17
520	Optimal Operation of Energy Storage System for a Prosumer Microgrid Considering Economical and Environmental Effects. , 2019, , .		17
521	Cloud-Fog Architecture Based Energy Management and Decision-Making for Next-Generation Distribution Network with Prosumers and Internet of Things Devices. Applied Sciences (Switzerland), 2019, 9, 372.	2.5	17
522	Stochastic risk-constrained decision-making approach for a retailer in a competitive environment with flexible demand side resources. International Transactions on Electrical Energy Systems, 2019, 29, e2719.	1.9	17

#	ARTICLE	IF	CITATIONS
523	Enhanced Current-Limiting Droop Controller for Grid-Connected Inverters to Guarantee Stability and Maximize Power Injection Under Grid Faults. IEEE Transactions on Control Systems Technology, 2021, 29, 841-849.	5.2	17
524	Cyberattack Detection for Converter-Based Distributed dc Microgrids: Observer-Based Approaches. IEEE Industrial Electronics Magazine, 2022, 16, 67-77.	2.6	17
525	A Robust Method for Controlling Grid-Connected Inverters in Weak Grids. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 1333-1337.	3.0	17
526	More-Stable EPLL. IEEE Transactions on Power Electronics, 2022, 37, 1003-1011.	7.9	17
527	Optimal Configuration and Sizing of Seaport Microgrids including Renewable Energy and Cold Ironingâ€”The Port of Aalborg Case Study. Energies, 2022, 15, 431.	3.1	17
528	Dynamic voltage restore based on switched-capacitor multilevel inverter with ability to compensate for voltage drop, harmonics, and unbalancing simultaneously. Electric Power Systems Research, 2022, 207, 107826.	3.6	17
529	Electric cars, ships, and their charging infrastructure â€” A comprehensive review. Sustainable Energy Technologies and Assessments, 2022, 52, 102177.	2.7	17
530	A comprehensive review on telecommunication challenges of microgrids secondary control. International Journal of Electrical Power and Energy Systems, 2022, 140, 108081.	5.5	17
531	Economic power dispatch of distributed generators in a grid-connected microgrid. , 2015, , .		16
532	A Repetitive Control Scheme Aimed at Compensating the 6k + 1 Harmonics for a Three-Phase Hybrid Active Filter. Energies, 2016, 9, 787.	3.1	16
533	Optimal adaptive droop control for effective load sharing in AC microgrids. , 2016, , .		16
534	Adaptive overcurrent protection for microgrids in extensive distribution systems. , 2016, , .		16
535	Performance Evaluation of Type-3 PLLs Under Wide Variation in Input Voltage and Frequency. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2017, 5, 971-981.	5.4	16
536	Frequency-division power sharing and hierarchical control design for DC shipboard microgrids with hybrid energy storage systems. , 2017, , .		16
537	A Reduced-Order Enhanced State Observer Control of DC-DC Buck Converter. IEEE Access, 2018, 6, 56184-56191.	4.2	16
538	Microgrids Technologies in Future Seaports. , 2018, , .		16
539	A communication-free economical-sharing scheme for cascaded-type microgrids. International Journal of Electrical Power and Energy Systems, 2019, 104, 1-9.	5.5	16
540	Dual-Input Quasi-Z-Source PV Inverter: Dynamic Modeling, Design, and Control. IEEE Transactions on Industrial Electronics, 2020, 67, 6483-6493.	7.9	16

#	ARTICLE	IF	CITATIONS
541	Energy Commitment for a Power System Supplied by Multiple Energy Carriers System using Following Optimization Algorithm. Applied Sciences (Switzerland), 2020, 10, 5862.	2.5	16
542	Inverter Parallelization for an Islanded Microgrid Using the Hopf Oscillator Controller Approach With Self-Synchronization Capabilities. IEEE Transactions on Industrial Electronics, 2021, 68, 10879-10889.	7.9	16
543	A Novel Dynamic Appliance Clustering Scheme in a Community Home Energy Management System for Improved Stability and Resiliency of Microgrids. IEEE Access, 2021, 9, 142276-142288.	4.2	16
544	Parallel operation of uninterruptible power supply systems in microgrids. , 2007, , .		15
545	Control of Line-Interactive UPS Connected in Parallel Forming a Microgrid. , 2007, , .		15
546	Selective virtual capacitive impedance loop for harmonic voltage compensation in islanded MicroGrids. , 2013, , .		15
547	Load shifting control and management of domestic microgeneration systems for improved energy efficiency and comfort. , 2015, , .		15
548	Voltage control of DC islanded microgrids: A decentralized scalable approach. , 2015, , .		15
549	Active damping techniques for LCL-filtered inverters-based microgrids. , 2015, , .		15
550	Multiobjective optimization in combinatorial wind farms system integration and resistive SFCL using analytical hierarchy process. Renewable Energy, 2016, 94, 366-382.	8.9	15
551	Multi-level energy management and optimal control of a residential DC microgrid. , 2017, , .		15
552	A Hybrid Compensator Configuration for VAR Control and Harmonic Suppression in All-Electric Shipboard Power Systems. IEEE Transactions on Power Delivery, 2020, 35, 1379-1389.	4.3	15
553	An iterative adaptive virtual impedance loop for reactive power sharing in islanded meshed microgrids. Sustainable Energy, Grids and Networks, 2020, 24, 100395.	3.9	15
554	Space Microgrids: New Concepts on Electric Power Systems for Satellites. IEEE Electrification Magazine, 2020, 8, 8-19.	1.8	15
555	Grid code compatibility and real-time performance analysis of an efficient inverter topology for PV-based microgrid applications. International Journal of Electrical Power and Energy Systems, 2021, 128, 106712.	5.5	15
556	Investment opportunities: Hydrogen production or BTC mining?. International Journal of Hydrogen Energy, 2022, 47, 5733-5744.	7.1	15
557	Adaptive Power Management of Hierarchical Controlled Hybrid Shipboard Microgrids. IEEE Access, 2022, 10, 21397-21411.	4.2	15
558	Fuzzy droop control loops adjustment for stored energy balance in distributed energy storage system. , 2015, , .		14

#	ARTICLE	IF	CITATIONS
559	Comparative admittance-based analysis for different droop control approaches in DC microgrids. , 2017, , .		14
560	Hybrid shipboard microgrids: System architectures and energy management aspects. , 2017, , .		14
561	Flexible Compensation of Voltage and Current Unbalance and Harmonics in Microgrids. Energies, 2017, 10, 1568.	3.1	14
562	Regulatory-framework-embedded energy management system for microgrids: The case study of the Spanish self-consumption scheme. Applied Energy, 2019, 251, 113374.	10.1	14
563	A Novel Dynamic Aggregation Modeling Method of Grid-Connected Inverters: Application in Small-Signal Analysis. IEEE Transactions on Sustainable Energy, 2019, 10, 1554-1564.	8.8	14
564	Optimum Sizing of Photovoltaic and Energy Storage Systems for Powering Green Base Stations in Cellular Networks. Energies, 2021, 14, 1895.	3.1	14
565	A Review of the Conceptualization and Operational Management of Seaport Microgrids on the Shore and Seaside. Energies, 2021, 14, 7941.	3.1	14
566	Introduction to the Special Section on Industrial Applications and Implementation Issues of the Kalman Filter. IEEE Transactions on Industrial Electronics, 2012, 59, 4165-4168.	7.9	13
567	Secondary coordinated control of islanded microgrids based on consensus algorithms. , 2014, , .		13
568	Control and analysis of droop and reverse droop controllers for distributed generations. , 2014, , .		13
569	Control of a multi-functional inverter for grid integration of PV and battery energy storage system. , 2015, , .		13
570	Abc-frame complex-coefficient filter and controller based current harmonic elimination strategy for three-phase grid connected inverter. Journal of Modern Power Systems and Clean Energy, 2016, 4, 87-93.	5.4	13
571	Happiness is a hybrid - electric: A diesel-burning boat finds new life with a direct-current microgrid. IEEE Spectrum, 2019, 56, 42-47.	0.7	13
572	Robust Frequency Control in Interconnected Microgrids: An H_{∞} Control Approach. IEEE Systems Journal, 2022, 16, 2044-2055.	4.6	13
573	Cyber-Resilient Cooperative Control of DC Microgrid Clusters. IEEE Systems Journal, 2022, 16, 1996-2007.	4.6	13
574	An adaptive backstepping control to ensure the stability and robustness for boost power converter in DC microgrids. Energy Reports, 2022, 8, 1110-1124.	5.1	13
575	Microgrids: Integration of distributed energy resources into the smart-grid. , 2010, , .		12
576	Coordinated power control strategy based on primary-frequency-signaling for islanded microgrids. , 2013, , .		12

#	ARTICLE	IF	CITATIONS
577	Model predictive control of smart microgrids. , 2014, , .		12
578	Autonomous active and reactive power distribution strategy in islanded microgrids. , 2014, , .		12
579	A Communication-Free Decentralized Control for Grid-Connected Cascaded PV Inverters. Energies, 2018, 11, 1375.	3.1	12
580	An economic customer-oriented demand response model in electricity markets. , 2018, , .		12
581	Dual-loop control strategy applied to PV/battery-based islanded DC microgrids for swarm electrification of developing regions. Journal of Engineering, 2019, 2019, 5298-5302.	1.1	12
582	Stability Analysis and Robust Damping of Multiresonances in Distributed-Generation-Based Islanded Microgrids. IEEE Transactions on Industrial Electronics, 2019, 66, 8958-8970.	7.9	12
583	Coupling effect analysis and control for grid-connected multi-microgrid clusters. IET Power Electronics, 2020, 13, 1059-1070.	2.1	12
584	Improved direct model predictive control for variable magnitude variable frequency wave energy converter connected to constant power load. Journal of Energy Storage, 2021, 43, 103175.	8.1	12
585	Hardy space nonlinear controller design for DC microgrid with constant power loads. International Journal of Electrical Power and Energy Systems, 2021, 133, 107300.	5.5	12
586	Analysis of Flux Density Bias and Digital Suppression Strategy for Single-Stage Power Factor Corrector Converter. IEEE Transactions on Industrial Electronics, 2008, 55, 3077-3087.	7.9	11
587	Angle Stability Analysis for Voltage-Controlled Converters. IEEE Transactions on Industrial Electronics, 2017, 64, 6265-6275.	7.9	11
588	Guest Editorial Special Issue on Structured DC Microgrids. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2017, 5, 925-927.	5.4	11
589	Constant power load instability mitigation in DC shipboard power systems using negative series virtual inductor method. , 2017, , .		11
590	State observer based capacitor-voltage-balancing method for modular multilevel converters without arm-current sensors. International Journal of Electrical Power and Energy Systems, 2019, 113, 188-196.	5.5	11
591	Dynamic Modeling of Multiple Microgrid Clusters Using Regional Demand Response Programs. Energies, 2020, 13, 4050.	3.1	11
592	Energy Management System for an Islanded Renewables-based DC Microgrid. , 2020, , .		11
593	New hybrid-microgrid topology using a bidirectional interleaved converter as a robust power interface operating in grid-connected and islanded modes. IET Renewable Power Generation, 2020, 14, 134-144.	3.1	11
594	Active resonance damping and harmonics compensation in distributed generation based islanded microgrids. Electric Power Systems Research, 2021, 191, 106900.	3.6	11

#	ARTICLE	IF	CITATIONS
595	LTP Modeling of Single-Phase $T/4$ Delay-Based PLLs. IEEE Transactions on Industrial Electronics, 2021, 68, 9003-9008.	7.9	11
596	Frequency-Locked Loops in Electrical Power and Energy Systems: Equivalent or Different to Phase-Locked Loops?. IEEE Industrial Electronics Magazine, 2021, 15, 54-64.	2.6	11
597	Identifiability Evaluation of Crucial Parameters for Grid Connected Photovoltaic Power Plants Design Optimization. IEEE Access, 2021, 9, 108754-108771.	4.2	11
598	A new voltage regulation strategy using developed power sharing techniques for solar photovoltaic generation-based microgrids. Electrical Engineering, 2021, 103, 3023-3031.	2.0	11
599	A new hybrid virtual synchronous machine control structure combined with voltage source converters in islanded ac microgrids. Electric Power Systems Research, 2021, 193, 106976.	3.6	11
600	A Novel Power Sharing Scheme of Controlling Parallel-Operated Inverters in Islanded Microgrids. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 5732-5746.	5.4	11
601	Hybrid islanding detection technique for single-phase grid-connected photovoltaic multi-inverter systems. IET Renewable Power Generation, 2020, 14, 3864-3880.	3.1	11
602	Performance Evaluations of Four MAF-Based PLL Algorithms for Grid-Synchronization of Three-Phase Grid-Connected PWM Inverters and DGs. Journal of Power Electronics, 2016, 16, 1904-1917.	1.5	11
603	Stochastic optimal power flow in islanded DC microgrids with correlated load and solar PV uncertainties. Applied Energy, 2022, 307, 118090.	10.1	11
604	Event-triggered distributed voltage regulation by heterogeneous BESS in low-voltage distribution networks. Applied Energy, 2022, 312, 118597.	10.1	11
605	A distributed real-time power management scheme for shipboard zonal multi-microgrid system. Applied Energy, 2022, 317, 119072.	10.1	11
606	Multiagent based distributed control for operation cost minimization of droop controlled AC microgrid using incremental cost consensus. , 2015, , .		10
607	Dynamic evaluation of LCL-type grid-connected inverters with different current feedback control schemes. , 2015, , .		10
608	Small-signal modeling, analysis and testing of parallel three-phase-inverters with a novel autonomous current sharing controller. , 2015, , .		10
609	Analysis and distributed control of power flow in DC microgrids to improve system efficiency. , 2016, , .		10
610	Optimal Performance Design Guideline of Hybrid Reference Frame Based Dual-Loop Control Strategy for Stand-Alone Single-Phase Inverters. IEEE Transactions on Energy Conversion, 2018, 33, 730-740.	5.2	10
611	Scheduling of Power Generation in Hybrid Shipboard Microgrids with Energy Storage Systems. , 2018, , .		10
612	A Power Calculation Algorithm for Single-Phase Droop-Operated-Inverters Considering Linear and Nonlinear Loads HIL-Assessed. Electronics (Switzerland), 2019, 8, 1366.	3.1	10

#	ARTICLE	IF	CITATIONS
613	HIL-Assessed Fast and Accurate Single-Phase Power Calculation Algorithm for Voltage Source Inverters Supplying to High Total Demand Distortion Nonlinear Loads. <i>Electronics (Switzerland)</i> , 2020, 9, 1643.	3.1	10
614	Model predictive control of <scp>directâ€drive</scp> wave power generation system connected to <scp>DC</scp> microgrid through <scp>DC</scp> cable. <i>International Transactions on Electrical Energy Systems</i> , 2020, 30, etep12484.	1.9	10
615	Decentralised nonâ€linear <i>V</i> droop control to improve current sharing and voltage restoration in DCNG clusters. <i>IET Power Electronics</i> , 2020, 13, 248-255.	2.1	10
616	Flatness-Based Decentralized Control of Bidirectional Interlink Power Converters in Grid-Connected Hybrid Microgrids Using Adaptive High-Gain PI-Observer. <i>IEEE Systems Journal</i> , 2021, 15, 478-486.	4.6	10
617	Virtual Resistance Tradeoff Design for DCMG Grid-Forming Converters Considering Static- and Large-Signal Dynamic Constraints. <i>IEEE Transactions on Power Electronics</i> , 2021, 36, 5582-5593.	7.9	10
618	Comprehensive power flow modelling of hierarchically controlled AC/DC hybrid islanded microgrids. <i>International Journal of Electrical Power and Energy Systems</i> , 2021, 127, 106629.	5.5	10
619	Linear Quadratic Regulator Based Smooth Transition Between Microgrid Operation Modes. <i>IEEE Transactions on Smart Grid</i> , 2021, 12, 4854-4864.	9.0	10
620	Frequency Coupling Admittance Modeling of Quasi-PR Controlled Inverter and Its Stability Comparative Analysis Under the Weak Grid. <i>IEEE Access</i> , 2021, 9, 94912-94922.	4.2	10
621	Co-design of the LCL Filter and Control for Grid-Connected Inverters. <i>Journal of Power Electronics</i> , 2014, 14, 1047-1056.	1.5	10
622	A Frequency Independent Technique to Estimate Harmonics and Interharmonics in Shipboard Microgrids. <i>IEEE Transactions on Smart Grid</i> , 2022, 13, 888-899.	9.0	10
623	LTP Modeling and Stability Assessment of Multiple Second-Order Generalized Integrator-Based Signal Processing/Synchronization Algorithms and Their Close Variants. <i>IEEE Transactions on Power Electronics</i> , 2022, 37, 5062-5077.	7.9	10
624	Optimal Load and Energy Management of Aircraft Microgrids Using Multi-Objective Model Predictive Control. <i>Sustainability</i> , 2021, 13, 13907.	3.2	10
625	Stochastic Optimal Strategy for Power Management in Interconnected Multi-Microgrid Systems. <i>Electronics (Switzerland)</i> , 2022, 11, 1424.	3.1	10
626	Secondary control for voltage unbalance compensation in an islanded microgrid. , 2011, , .		9
627	Secondary control for compensation of voltage harmonics and unbalance in microgrids. , 2012, , .		9
628	A novel grid impedance estimation technique based on adaptive virtual resistance control loop applied to distributed generation inverters. , 2013, , .		9
629	Stored energy balance for distributed PV-based active generators in an AC microgrid. , 2015, , .		9
630	Stability analysis for isolated AC microgrids based on PV-active generators. , 2015, , .		9

#	ARTICLE	IF	CITATIONS
631	A hybrid algorithm for fault locating in looped microgrids. , 2016, , .		9
632	Voltage unbalance and harmonic compensation in microgrids by cooperation of distributed generators and active power filters. , 2016, , .		9
633	Grid impedance estimation based hybrid islanding detection method for AC microgrids. Mathematics and Computers in Simulation, 2017, 131, 142-156.	4.4	9
634	Plug-and-play control and consensus algorithms for current sharing in DC microgrids. IFAC-PapersOnLine, 2017, 50, 12440-12445.	0.9	9
635	Multilevel DC-Link Converter-Based Photovoltaic System with Integrated Energy Storage. , 2018, , .		9
636	Stochastic Frequency-Security Constrained Scheduling of a Microgrid Considering Price-Driven Demand Response. , 2018, , .		9
637	Cooperation of Voltage Controlled Active Power Filter with Grid-Connected DGs in Microgrid. Sustainability, 2019, 11, 154.	3.2	9
638	AC vs. DC Distribution Efficiency: Are We on the Right Path?. Energies, 2021, 14, 4039.	3.1	9
639	Coordinated Control of Diesel Generators and Batteries in DC Hybrid Electric Shipboard Power System. Energies, 2021, 14, 6246.	3.1	9
640	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.	5.4	9
641	Novel modular multilevel converter-based five-terminal MV/LV hybrid AC/DC microgrids with improved operation capability under unbalanced power distribution. Applied Energy, 2022, 306, 118140.	10.1	9
642	Hierarchical control scheme for voltage unbalance compensation in islanded microgrids. , 2011, , .		8
643	Microgrid reactive and harmonic power sharing using enhanced virtual impedance. , 2013, , .		8
644	Hierarchical coordinated control of distributed generators and active power filters to enhance power quality of microgrids. , 2014, , .		8
645	Distributed low voltage ride-through operation of power converters in grid-connected microgrids under voltage sags. , 2015, , .		8
646	A harmonic current suppression control strategy for droop-controlled inverter connected to the distorted grid. , 2015, , .		8
647	Generation and demand scheduling for a grid-connected hybrid microgrid considering price-based incentives. , 2017, , .		8
648	Designing high-order power-source synchronous current converters for islanded and grid-connected microgrids. Applied Energy, 2018, 219, 370-384.	10.1	8

#	ARTICLE	IF	CITATIONS
649	Model Predictive-Based Direct Battery Control in PV Fed Quasi Z-Source Inverters. , 2018, , .		8
650	Power coordinated control method with frequency support capability for hybrid single/three-phase microgrid. IET Generation, Transmission and Distribution, 2018, 12, 2397-2405.	2.5	8
651	Multiple Second-Order Generalized Integrators Based Comb Filter for Fast Selective Harmonic Extraction. , 2019, , .		8
652	Design of Space Microgrid for Manned Lunar Base: Spinning-in Terrestrial Technologies. , 2019, , .		8
653	Integrated Control and Protection Architecture for Islanded PV-Battery DC Microgrids: Design, Analysis and Experimental Verification. Applied Sciences (Switzerland), 2020, 10, 8847.	2.5	8
654	Dominated GSO algorithm for optimal microgrid construction to improve consumer side properties in a distribution system. International Journal of Electrical Power and Energy Systems, 2020, 123, 106232.	5.5	8
655	Enhanced Intelligent Energy Management System for a Renewable Energy-Based AC Microgrid. Energies, 2020, 13, 3268.	3.1	8
656	Stabilization of DC Nanogrids Based on Non-Integer General Type-II Fuzzy System. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 3108-3112.	3.0	8
657	Voltage and Frequency Consensusability of Autonomous Microgrids Over Fading Channels. IEEE Transactions on Energy Conversion, 2021, 36, 149-158.	5.2	8
658	Wavelet-Based Frequency Tracking Monitor Applied for Low-Inertia AC Microgrids. IEEE Transactions on Power Electronics, 2021, 36, 6674-6684.	7.9	8
659	An Effective Algorithm for MAED Problems with a New Reliability Model at the Microgrid. Electronics (Switzerland), 2021, 10, 257.	3.1	8
660	Stability Enhancement of Inverters in Grid-Connected Microgrids Using FIR Filter. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2021, 2, 122-131.	3.9	8
661	Effective Controls of Fixed Capacitor-Thyristor Controlled Reactors for Power Quality Improvement in Shipboard Microgrids. IEEE Transactions on Industry Applications, 2021, 57, 2838-2849.	4.9	8
662	Optimum Sizing of Photovoltaic-Battery Power Supply for Drone-Based Cellular Networks. Drones, 2021, 5, 138.	4.9	8
663	Stability of microgrid cluster with Diverse Energy Sources: A multi-objective solution using NSGA-II based controller. Sustainable Energy Technologies and Assessments, 2022, 50, 101834.	2.7	8
664	Electric Vehicle Charging Load Allocation at Residential Locations Utilizing the Energy Savings Gained by Optimal Network Reconductoring. Smart Cities, 2022, 5, 177-205.	9.4	8
665	Robust PID-PSS Design for Stability Improvement of Grid-Tied HydroTurbine Generator. , 2021, , .		8
666	Selective compensation of voltage harmonics in an islanded microgrid. , 2011, , .		7

#	ARTICLE	IF	CITATIONS
667	Voltage quality improvement in islanded microgrids supplying nonlinear loads. , 2012, , .		7
668	An enhanced hierarchical control strategy for the Internet of Things-based home scale microgrid. , 2017, , .		7
669	Hybrid droop control strategy applied to grid-supporting converters in DC microgrids: Modeling, design and analysis. , 2017, , .		7
670	Modeling and Controls of Flywheel Energy Storage Systems for Energy Harvesting from Harbor Electrical Cranes. , 2018, , .		7
671	Cyber Physical Energy Systems Modules for Power Sharing Controllers in Inverter Based Microgrids. Inventions, 2018, 3, 66.	2.5	7
672	An Enhanced Power Decoupling Control for Grid-connected Capacitive-Coupling Inverters. , 2019, , .		7
673	A Resolution-Enhanced Sliding Matrix Pencil Method for Evaluation of Harmonics Distortion in Shipboard Microgrids. IEEE Transactions on Transportation Electrification, 2020, 6, 1290-1300.	7.8	7
674	Multi-agent Control Strategy for Microgrids using Petri Nets. , 2020, , .		7
675	Self-directed Energy Management System for an Islanded Cube Satellite Nanogrid. , 2020, , .		7
676	Emulation of Multi-Inverter Integrated Weak Grid via Interaction-Preserved Aggregation. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 4153-4164.	5.4	7
677	Logarithmic droop-based decentralized control of parallel converters for accurate current sharing in islanded DC microgrid applications. IET Renewable Power Generation, 2021, 15, 1240-1254.	3.1	7
678	An Accurate Physical Model for PV Modules With Improved Approximations of Series-Shunt Resistances. IEEE Journal of Photovoltaics, 2021, 11, 699-707.	2.5	7
679	Hierarchical Control of Space Closed Ecosystems: Expanding Microgrid Concepts to Bioastronautics. IEEE Industrial Electronics Magazine, 2021, 15, 16-27.	2.6	7
680	Effect of Battery Degradation on the Probabilistic Optimal Operation of Renewable-Based Microgrids. Electricity, 2022, 3, 53-74.	2.8	7
681	Guest Editorial Editorial Special Issue on Power Electronics for Microgridsâ€™Part I. IEEE Transactions on Power Electronics, 2010, 25, 2885-2888.	7.9	6
682	Improving the voltage quality of an inverter via by-passing the harmonic current components. , 2012, , .		6
683	Analysis, design, and experimental evaluation of power calculation in digital droop-controlled parallel microgrid inverters. Journal of Zhejiang University: Science C, 2013, 14, 50-64.	0.7	6
684	Tertiary control for optimal unbalance compensation in islanded microgrids. , 2014, , .		6

#	ARTICLE	IF	CITATIONS
685	Coordinated secondary control for balanced discharge rate of energy storage system in islanded microgrids. , 2015, , .		6
686	Dynamic consensus algorithm based distributed voltage harmonic compensation in islanded microgrids. , 2015, , .		6
687	Online energy management system for distributed generators in a grid-connected microgrid. , 2015, , .		6
688	Coordinated Demand Response and Distributed Generation Management in Residential Smart Microgrids. , 2016, , .		6
689	An embedded voltage harmonic compensation strategy for current controlled DG interfacing converters. , 2016, , .		6
690	Decentralized method for load sharing and power management in a hybrid single/three-phase islanded microgrid consisting of hybrid source PV/battery units. , 2016, , .		6
691	Combined solar charging stations and energy storage units allocation for electric vehicles by considering uncertainties. , 2017, , .		6
692	Effective and low-cost passive compensator system to improve the power quality of two electric generators. IET Power Electronics, 2019, 12, 1833-1840.	2.1	6
693	Hybrid Energy Storage Systems for Voltage Stabilization in Shipboard Microgrids. , 2019, , .		6
694	A Deep Learning Method for Short-Term Dynamic Positioning Load Forecasting in Maritime Microgrids. Applied Sciences (Switzerland), 2020, 10, 4889.	2.5	6
695	Hybrid Model Predictive Control for Modified Modular Multilevel Switch-Mode Power Amplifier. IEEE Transactions on Power Electronics, 2021, 36, 5302-5322.	7.9	6
696	Analysing integration issues of the microgrid system with utility grid network. International Journal of Emerging Electric Power Systems, 2021, 22, 113-127.	0.8	6
697	Detailed Operation Scheduling and Control for Renewable Energy Powered Microgrids. Computer Aided Chemical Engineering, 2011, 29, 1819-1823.	0.5	6
698	A Comparison of Fixed-Parameter Active-Power-Oscillation Damping Solutions for Virtual Synchronous Generators. , 2021, , .		6
699	Distributed Dynamic Event-Triggered Control for Accurate Active and Harmonic Power Sharing in Modular On-Line UPS Systems. IEEE Transactions on Industrial Electronics, 2022, 69, 13045-13055.	7.9	6
700	An Adaptive Dynamic Reference Control for Power Converters in a Microgrid. IEEE Transactions on Power Electronics, 2022, 37, 9164-9174.	7.9	6
701	A novel continuous control set model predictive control to guarantee stability and robustness for buck power converter in DC microgrids. Energy Reports, 2021, 7, 1400-1415.	5.1	6
702	Hesitant fuzzy for conflicting criteria in multi-objective deployment of electric vehicle charging stations. Sustainable Cities and Society, 2022, 85, 104054.	10.4	6

#	ARTICLE	IF	CITATIONS
703	Editorial Special Issue on Power Electronics for Wind Energy Conversion. IEEE Transactions on Power Electronics, 2008, 23, 1038-1040.	7.9	5
704	Control of single-phase islanded PV/battery streetlight cluster based on power-line signaling. , 2013, , .		5
705	A new virtual-flux-vector based droop control strategy for parallel connected inverters in microgrids. , 2013, , .		5
706	Dynamics assessment of grid-synchronization algorithms for single-phase grid-connected converters. , 2015, , .		5
707	Phase-lock loop of Grid-connected Voltage Source Converter under non-ideal grid condition. , 2015, , .		5
708	Cooperative management for a cluster of residential prosumers. , 2016, , .		5
709	Real-time reactive power distribution in microgrids by dynamic programming. IET Generation, Transmission and Distribution, 2017, 11, 530-539.	2.5	5
710	A secondary-control based fault current limiter for four-wire three phase inverter-interfaced DGs. , 2017, , .		5
711	A proportional harmonic power sharing scheme for hierarchical controlled microgrids considering unequal feeder impedances and nonlinear loads. , 2017, , .		5
712	PCC voltage power quality restoring strategy based on the droop controlled grid-connecting microgrid. Journal of Engineering, 2017, 2017, 1399-1403.	1.1	5
713	Power-Heat Generation Sources Planning in Microgrids to Enhance Resilience against Islanding due to Natural Disasters. , 2019, , .		5
714	Bumpless Optimal Control over Multi-Objective Microgrids with Mode-Dependent Controllers. Energies, 2019, 12, 3619.	3.1	5
715	Finite-Gain Repetitive Controller for Harmonic Sharing Improvement in a VSM Microgrid. IEEE Transactions on Smart Grid, 2019, 10, 6898-6911.	9.0	5
716	Analysis and optimization of hybrid modular multilevel converters under over-modulation conditions. International Journal of Electrical Power and Energy Systems, 2020, 116, 105578.	5.5	5
717	Research on Synchronverter-Based Regenerative Braking Energy Feedback System of Urban Rail Transit. Energies, 2020, 13, 4418.	3.1	5
718	Secondary-control-based harmonics compensation scheme for voltage-and current-controlled inverters in islanded microgrids. IET Renewable Power Generation, 2020, 14, 2176-2182.	3.1	5
719	Vector Measurement-Based Virtual Inertia Emulation Technique for Real-Time Transient Frequency Regulation in Microgrids. IEEE Transactions on Power Electronics, 2021, 36, 6685-6698.	7.9	5
720	Compensation of distortions in VSC-based DC-AC power systems using a modified vector control method. Control Engineering Practice, 2021, 114, 104864.	5.5	5

#	ARTICLE	IF	CITATIONS
721	Message Queuing Telemetry Transport Communication Infrastructure for Grid-Connected AC Microgrids Management. <i>Energies</i> , 2021, 14, 5610.	3.1	5
722	Multifunctional UPQC operating as an interface converter between hybrid AC-DC microgrids and utility grids. <i>International Journal of Electrical Power and Energy Systems</i> , 2022, 136, 107638.	5.5	5
723	Active arc suppression device based on voltage-source convertor with consideration of line impedance in distribution networks. <i>IET Power Electronics</i> , 2021, 14, 2585-2596.	2.1	5
724	A Decentralized Control Scheme for Adaptive Power-Sharing in Ships based Seaport Microgrid. , 2020, , .		5
725	A Novel Circulating Current Suppression for Paralleled Current Source Converter Based on Virtual Impedance Concept. <i>Energies</i> , 2022, 15, 1952.	3.1	5
726	A hierarchical control scheme for reactive power and harmonic current sharing in islanded microgrids. , 2015, , .		4
727	A Riding-through Technique for Seamless Transition between Islanded and Grid-Connected Modes of Droop-Controlled Inverters. <i>Energies</i> , 2016, 9, 732.	3.1	4
728	Distributed voltage control and load sharing for inverter-interfaced microgrid with resistive lines. , 2016, , .		4
729	Maritime DC microgrids - a combination of microgrid technologies and maritime onboard power system for future ships. , 2016, , .		4
730	Selective Sharing of Load Current Components Among Parallel Power Electronic Interfaces in Three-phase Four-wire Stand-alone Microgrid. <i>Electric Power Components and Systems</i> , 2017, 45, 864-880.	1.8	4
731	Specialized hierarchical control strategy for DC distribution based shipboard microgrids: A combination of emerging DC shipboard power systems and microgrid technologies. , 2017, , .		4
732	Plug-and-Play Voltage/Current Stabilization DC Microgrid Clusters with Grid-Forming/Feeding Converters. , 2018, , .		4
733	A Reactive Power-Voltage Control Strategy of an AC Microgrid Based on Adaptive Virtual Impedance. <i>Energies</i> , 2019, 12, 3057.	3.1	4
734	A Novel Compact dq-Reference Frame Model for Inverter-Based Microgrids. <i>Electronics (Switzerland)</i> , 2019, 8, 1326.	3.1	4
735	Mode-dependent seamless transfer control strategy of a microgrid via a small-signal stability approach. <i>Asian Journal of Control</i> , 2019, 21, 2087-2104.	3.0	4
736	A Very Short-Term Probabilistic Prediction Interval Forecaster for Reducing Load Uncertainty Level in Smart Grids. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2538.	2.5	4
737	Distributed control strategy for DC microgrids based on average consensus and fractional-order local controllers. <i>IET Smart Grid</i> , 2021, 4, 549-560.	2.2	4
738	A modified indirect extraction method for a single-phase shunt active power filter with smaller DC-link capacitor size. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 45, 101039.	2.7	4

#	ARTICLE	IF	CITATIONS
739	AC Microgrids Protection: A Digital Coordinated Adaptive Scheme. Applied Sciences (Switzerland), 2021, 11, 7066.	2.5	4
740	Adaptive Multi-objective Sliding Mode Control of a Wind Energy Conversion System Involving Doubly Fed Induction Generator for Power Capture Optimization. Journal of Control, Automation and Electrical Systems, 2021, 32, 1663-1677.	2.0	4
741	Scalable architecture of DC microgrid implemented with multi-input multi-output converter. IET Power Electronics, 2020, 13, 4480-4489.	2.1	4
742	First-order integral switching surface sliding-mode control method of active front end rectifier for fast charger applications. IET Power Electronics, 2020, 13, 3900-3909.	2.1	4
743	Unified decentralised control for both grid-connected and islanded operation of cascaded-type microgrid. IET Renewable Power Generation, 2020, 14, 3138-3148.	3.1	4
744	Distributed event-triggered average consensus control strategy with fractional-order local controllers for DC microgrids. Electric Power Systems Research, 2022, 207, 107791.	3.6	4
745	A robust passivity based model predictive control for buck converter supplying constant power load. Energy Reports, 2021, 7, 792-813.	5.1	4
746	Resonant current regulation for transformerless hybrid active filter to suppress harmonic resonances in industrial power systems. , 2010, , .		3
747	Equalization algorithm for distributed energy storage systems in islanded AC microgrids. , 2015, , .		3
748	Morphological PLL for potential applications on renewable energy. Electric Power Systems Research, 2018, 156, 15-23.	3.6	3
749	Experiments on a Real-Time Energy Management System for Islanded Prosumer Microgrids. Electronics (Switzerland), 2019, 8, 925.	3.1	3
750	Open IoT Infrastructures for In-Home Energy Management and Control. , 2019, , .		3
751	Stability Improvement of Converter-side Current Controlled Grid-Connected Inverters. , 2019, , .		3
752	Harmonics Mitigation in Hybrid AC/DC Shipboard Microgrids Using Fixed Capacitor-Thyristor Controlled Reactors. , 2020, , .		3
753	Operation Management for Next-Generation of MVDC Shipboard Microgrids. , 2020, , .		3
754	Precise current sharing and decentralized power management schemes based on virtual frequency droop method for LVDC microgrids. International Journal of Electrical Power and Energy Systems, 2022, 136, 107708.	5.5	3
755	An Integrated Synchronization and Control Strategy for Parallel-Operated Inverters Based on Droop Characteristics. IEEE Transactions on Power Electronics, 2022, 37, 5373-5384.	7.9	3
756	A novel modulation for Adaptive Control Issue-Based Optimization Techniques: Balloon Effect. , 2021, , .		3

#	ARTICLE	IF	CITATIONS
757	A fuzzy-based hybrid PLL scheme for abnormal grid conditions. , 2015, , .		2
758	Optimization scheduling in intelligent Energy Management System for the DC residential distribution system. , 2017, , .		2
759	Customized power quality service provided by converter interfaced microgrids â€” Voltage harmonics as a study case. , 2017, , .		2
760	A Cost-Effective Decentralized Control for AC-Stacked Photovoltaic Inverters. Energies, 2018, 11, 2262.	3.1	2
761	Optimal Design and Operation Management of Battery-Based Energy Storage Systems (BESS) in Microgrids. , 2018, , .		2
762	Stochastic Predictive Control of Multi-Microgrid Systems. , 2018, , .		2
763	Modeling and Tuning of Adaptive Complex Current Controller for Three-Phase Grid-Interfaced Power Converters. , 2019, , .		2
764	An Efficient Decision-Making Approach for Optimal Energy Management of Microgrids. , 2019, , .		2
765	Tradeâ€œff design of<scp>positiveâ€œfeedback</scp>-based islanding detection. International Transactions on Electrical Energy Systems, 2020, 30, e12654.	1.9	2
766	Optimal SSSC-based power damping inter-area oscillations using firefly and harmony search algorithms. Scientific Reports, 2020, 10, 12176.	3.3	2
767	LoRa Enabled Smart Inverters for Microgrid Scenarios with Widespread Elements. Electronics (Switzerland), 2021, 10, 2680.	3.1	2
768	Modified Virtual Inertia Mechanism Based ESS for A real Multi-Source Power System Application: the Egyptian Grid. , 2021, , .		2
769	Power quality assessment using signal periodicity independent algorithms â€” A shipboard microgrid case study. Applied Energy, 2022, 307, 118151.	10.1	2
770	An IoT Platform-based Multi-objective Energy Management System for Residential Microgrids. , 2020, , .		2
771	Dynamic Performance Assessment of NG-MVDC Shipboard Power System with Distributed Electric Propulsions. , 2020, , .		2
772	Supervisory Control for Real Time Reactive Power Flow Optimization in Islanded Microgrids. Computer Aided Chemical Engineering, 2013, , 325-330.	0.5	1
773	Guest Editorial Advanced Distributed Control of Energy Conversion Devices and Systems. IEEE Transactions on Energy Conversion, 2014, 29, 819-822.	5.2	1
774	A control scheme to improve the power quality with the absence of dedicated compensation devices in microgrid. , 2015, , .		1

#	ARTICLE	IF	CITATIONS
775	Active power regulation based on droop for AC microgrid. , 2015, , .		1
776	Virtual admittance loop for voltage harmonic compensation in microgrids. , 2015, , .		1
777	Droop control with an adjustable complex virtual impedance loop based on cloud model theory. , 2016, , .		1
778	A dynamic consensus algorithm based low-voltage ride-through operation of power converters in grid-interactive microgrids. , 2016, , .		1
779	Thermal Impact Analysis of Circulating Current in High Power Modular Online Uninterruptible Power Supplies Application. Energies, 2017, 10, 50.	3.1	1
780	Optimal Operational Scheduling of Smart Microgrids Considering Hourly Reconfiguration. , 2018, , .		1
781	Modeling of complex resonances in islanded Microgrids. , 2018, , .		1
782	Microgrid optimal energy and reserve scheduling considering frequency constraints. , 2019, , .		1
783	Operation Planning of Standalone Maritime Power Systems Using Particle Swarm Optimization. , 2019, , .		1
784	Independent predictive control with current limiting capability of three-phase four-leg inverter-interfaced isolated microgrids. International Journal of Electrical Power and Energy Systems, 2022, 134, 107457.	5.5	1
785	Optimal Value-based Prices Placement of DER and V2G using Planet Search Algorithm. , 2020, , .		1
786	A Cost-Effective Disturbance Governance Framework for Low-Inertia Autonomous Microgrids. Sustainable Energy Technologies and Assessments, 2021, 48, 101640.	2.7	1
787	Hierarchically controlled ecological life support systems. Computers and Chemical Engineering, 2022, 157, 107625.	3.8	1
788	Stability Boundary Analysis of Islanded Droop-Based Microgrids Using an Autonomous Shooting Method. Energies, 2022, 15, 2120.	3.1	1
789	State of Charge Balance of Distributed Batteries in DC Shipboard Microgrids. , 2021, , .		1
790	Comparative Study of Various Communication Technologies for Secondary Controllers in DC Microgrid. , 2021, , .		1
791	Strategy for demand side management effectiveness assessment via a stochastic risk-based bidding approach in a multi-energy microgrid containing combined cooling, heat and power and photovoltaic units. IET Renewable Power Generation, 0, , .	3.1	1
792	Modular energy management system applicable to residential microgrids. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
793	Special Issue on Advances in Integrated Energy Systems Design, Control and Optimization. Applied Sciences (Switzerland), 2017, 7, 727.	2.5	0
794	An Approach for the Emulation of DC Grid Admittances: Implementation on a Buck Converter. , 2018, , .		0
795	Differential flatness for smooth transition between grid-connected and standalone mode of three-phase inverter. , 2020, , .		0
796	Closure to Discussion on "Decentralized Optimal Frequency Control in Autonomous Microgrids" IEEE Transactions on Power Systems, 2020, 35, 4973-4973.	6.5	0
797	Energy Management Supervisory Controller Embedded-Board for Islanded Hybrid AC/DC Microgrids. , 2020, , .		0
798	Voltage Unbalance Compensation in AC Microgrids. Power Systems, 2021, , 337-373.	0.5	0
799	Active Reconfigurable Operation with Long Short-Term Memory Prediction for Smart City Microgrids. , 2019, , .		0
800	Harmonics Rejection Capability Enhancement of Passive Power Filters for All-Electric-Shipboard Micro-Grids. , 2020, , .		0
801	Directional element for faulty feeder identification of high-resistance fault in high-voltage power supply systems. IET Generation, Transmission and Distribution, 2021, 15, 45-55.	2.5	0
802	Pandemic Search Algorithm: A Metaheuristic Inspiration of COVID-19 Outbreak. , 2021, , .		0
803	Hybridization of battery with pico hydel for frequency regulation of microgrids using synchronverter control. IET Renewable Power Generation, 2022, 16, 274-286.	3.1	0
804	An enhanced fast fundamental frequency estimator for three-phase electric aircraft grid. Measurement: Journal of the International Measurement Confederation, 2022, 196, 111142.	5.0	0
805	Electrical distribution network: Existing problems. , 2022, , 17-26.		0