

Juan C Vasquez

List of Publications by Year in descending order

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times ranked

11631
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	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
3	Distributed Secondary Control for Islanded Microgrids—A Novel Approach. IEEE Transactions on Power Electronics, 2014, 29, 1018-1031.	7.9	854
4	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
5	DC Microgrids—Part I: A Review of Control Strategies and Stabilization Techniques. IEEE Transactions on Power Electronics, 2015, , 1-1.	7.9	827
6	Secondary Frequency and Voltage Control of Islanded Microgrids via Distributed Averaging. IEEE Transactions on Industrial Electronics, 2015, 62, 7025-7038.	7.9	760
7	Control Strategy for Flexible Microgrid Based on Parallel Line-Interactive UPS Systems. IEEE Transactions on Industrial Electronics, 2009, 56, 726-736.	7.9	680
8	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
9	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
10	Three-Phase PLLs: A Review of Recent Advances. IEEE Transactions on Power Electronics, 2017, 32, 1894-1907.	7.9	562
11	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
12	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
13	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
14	An Islanding Microgrid Power Sharing Approach Using Enhanced Virtual Impedance Control Scheme. IEEE Transactions on Power Electronics, 2013, 28, 5272-5282.	7.9	408
15	Hierarchical Control of Intelligent Microgrids. IEEE Industrial Electronics Magazine, 2010, 4, 23-29.	2.6	370
16	Hierarchical Control for Multiple DC-Microgrids Clusters. IEEE Transactions on Energy Conversion, 2014, 29, 922-933.	5.2	338
17	Hierarchical Control of Parallel AC-DC Converter Interfaces for Hybrid Microgrids. IEEE Transactions on Smart Grid, 2014, 5, 683-692.	9.0	327
18	Microgrid supervisory controllers and energy management systems: A literature review. Renewable and Sustainable Energy Reviews, 2016, 60, 1263-1273.	16.4	323

#	ARTICLE	IF	CITATIONS
19	Secondary Control for Voltage Quality Enhancement in Microgrids. IEEE Transactions on Smart Grid, 2012, 3, 1893-1902.	9.0	316
20	Single-Phase PLLs: A Review of Recent Advances. IEEE Transactions on Power Electronics, 2017, 32, 9013-9030.	7.9	300
21	Advanced LVDC Electrical Power Architectures and Microgrids: A step toward a new generation of power distribution networks. IEEE Electrification Magazine, 2014, 2, 54-65.	1.8	286
22	Autonomous Voltage Unbalance Compensation in an Islanded Droop-Controlled Microgrid. IEEE Transactions on Industrial Electronics, 2013, 60, 1390-1402.	7.9	285
23	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
24	Flexible Voltage Support Control for Three-Phase Distributed Generation Inverters Under Grid Fault. IEEE Transactions on Industrial Electronics, 2013, 60, 1429-1441.	7.9	280
25	Microgrids: Experiences, barriers and success factors. Renewable and Sustainable Energy Reviews, 2014, 40, 659-672.	16.4	280
26	Voltage Support Provided by a Droop-Controlled Multifunctional Inverter. IEEE Transactions on Industrial Electronics, 2009, 56, 4510-4519.	7.9	279
27	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
28	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
29	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
30	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
31	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
32	Virtual Impedance Loop for Droop-Controlled Single-Phase Parallel Inverters Using a Second-Order General-Integrator Scheme. IEEE Transactions on Power Electronics, 2010, 25, 2993-3002.	7.9	225
33	Microgrids: Hierarchical Control and an Overview of the Control and Reserve Management Strategies. IEEE Industrial Electronics Magazine, 2013, 7, 42-55.	2.6	220
34	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
35	Robust Networked Control Scheme for Distributed Secondary Control of Islanded Microgrids. IEEE Transactions on Industrial Electronics, 2014, 61, 5363-5374.	7.9	211
36	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

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37	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
38	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
39	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
40	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
41	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
42	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
43	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
44	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
45	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
46	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
47	Modeling, Tuning, and Performance Comparison of Second-Order-Generalized-Integrator-Based FLLs. IEEE Transactions on Power Electronics, 2018, 33, 10229-10239.	7.9	141
48	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
49	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
50	A Decentralized Scalable Approach to Voltage Control of DC Islanded Microgrids. IEEE Transactions on Control Systems Technology, 2016, 24, 1965-1979.	5.2	129
51	Single-Phase Frequency-Locked Loops: A Comprehensive Review. IEEE Transactions on Power Electronics, 2019, 34, 11791-11812.	7.9	129
52	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
53	A Multi-Functional Fully Distributed Control Framework for AC Microgrids. IEEE Transactions on Smart Grid, 2018, 9, 3247-3258.	9.0	123
54	Model Order Reductions for Stability Analysis of Islanded Microgrids With Droop Control. IEEE Transactions on Industrial Electronics, 2015, 62, 4344-4354.	7.9	121

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55	Adaptive protection combined with machine learning for microgrids. IET Generation, Transmission and Distribution, 2019, 13, 770-779.	2.5	115
56	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
57	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
58	A Spring Search Algorithm Applied to Engineering Optimization Problems. Applied Sciences (Switzerland), 2020, 10, 6173.	2.5	105
59	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
60	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
61	Hierarchical control of droop-controlled DC and AC microgrids – a general approach towards standardization. , 2009, , .		101
62	Brief Survey on Attack Detection Methods for Cyber-Physical Systems. IEEE Systems Journal, 2020, 14, 5329-5339.	4.6	101
63	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
64	Improved Direct Power Control for Grid-Connected Voltage Source Converters. IEEE Transactions on Industrial Electronics, 2018, 65, 8041-8051.	7.9	97
65	Efficient energy management for a grid-tied residential microgrid. IET Generation, Transmission and Distribution, 2017, 11, 2752-2761.	2.5	96
66	Power Management Strategy Based on Virtual Inertia for DC Microgrids. IEEE Transactions on Power Electronics, 2020, 35, 12472-12485.	7.9	93
67	Energy Storage Systems for Shipboard Microgrids – A Review. Energies, 2018, 11, 3492.	3.1	92
68	A Hankel Matrix Based Reduced Order Model for Stability Analysis of Hybrid Power System Using PSO-GSA Optimized Cascade PI-PD Controller for Automatic Load Frequency Control. IEEE Access, 2020, 8, 71422-71446.	4.2	92
69	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
70	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
71	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
72	Online Energy Management Systems for Microgrids: Experimental Validation and Assessment Framework. IEEE Transactions on Power Electronics, 2018, 33, 2201-2215.	7.9	87

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73	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
74	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
75	A Study on Three-Phase FLLs. IEEE Transactions on Power Electronics, 2019, 34, 213-224.	7.9	84
76	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
77	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
78	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
79	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
80	Analysis and Comparison of Notch Filter and Capacitor Voltage Feedforward Active Damping Techniques for LCL Grid-Connected Converters. IEEE Transactions on Power Electronics, 2019, 34, 3958-3972.	7.9	81
81	Smart Inverters for Microgrid Applications: A Review. Energies, 2019, 12, 840.	3.1	79
82	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
83	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
84	An MPC-Based ESS Control Method for PV Power Smoothing Applications. IEEE Transactions on Power Electronics, 2018, 33, 2136-2144.	7.9	75
85	Energy management system optimization in islanded microgrids: An overview and future trends. Renewable and Sustainable Energy Reviews, 2021, 149, 111327.	16.4	75
86	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
87	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
88	Multirate Fractional-Order Repetitive Control of Shunt Active Power Filter Suitable for Microgrid Applications. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2017, 5, 809-819.	5.4	70
89	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
90	An overview of low voltage DC distribution systems for residential applications. , 2015, , .		69

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91	Passivity-Based Design of Plug-and-Play Current-Controlled Grid-Connected Inverters. IEEE Transactions on Power Electronics, 2020, 35, 2135-2150.	7.9	69
92	Microgrid Digital Twins: Concepts, Applications, and Future Trends. IEEE Access, 2022, 10, 2284-2302.	4.2	68
93	Flywheel-Based Distributed Bus Signalling Strategy for the Public Fast Charging Station. IEEE Transactions on Smart Grid, 2014, 5, 2825-2835.	9.0	67
94	Internet of Things for Modern Energy Systems: State-of-the-Art, Challenges, and Open Issues. Energies, 2018, 11, 1252.	3.1	67
95	A Voltage Modulated DPC Approach for Three-Phase PWM Rectifier. IEEE Transactions on Industrial Electronics, 2018, 65, 7612-7619.	7.9	65
96	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
97	Distributed secondary control for islanded MicroGrids - A networked control systems approach. , 2012, , .		64
98	Cooperative energy management for a cluster of households prosumers. IEEE Transactions on Consumer Electronics, 2016, 62, 235-242.	3.6	63
99	SoC-based droop method for distributed energy storage in DC microgrid applications. , 2012, , .		62
100	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
101	Dynamic consensus algorithm based distributed global efficiency optimization of a droop controlled DC microgrid. , 2014, , .		61
102	Passivity-based coordinated control for islanded AC microgrid. Applied Energy, 2018, 229, 551-561.	10.1	61
103	Modeling, stability analysis and active stabilization of multiple DC-microgrid clusters. , 2014, , .		60
104	Frequency Stability of Hierarchically Controlled Hybrid Photovoltaic-Battery-Hydropower Microgrids. IEEE Transactions on Industry Applications, 2015, 51, 4729-4742.	4.9	59
105	All-Pass-Filter-Based PLL Systems: Linear Modeling, Analysis, and Comparative Evaluation. IEEE Transactions on Power Electronics, 2020, 35, 3558-3572.	7.9	56
106	Large-Signal Stability Improvement of DC-DC Converters in DC Microgrid. IEEE Transactions on Energy Conversion, 2021, 36, 2534-2544.	5.2	56
107	Microgrid central controller development and hierarchical control implementation in the intelligent microgrid lab of Aalborg University. , 2015, , .		55
108	Optimization-Based Power and Energy Management System in Shipboard Microgrid: A Review. IEEE Systems Journal, 2022, 16, 578-590.	4.6	55

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109	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
110	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
111	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
112	Towards collective energy Community: Potential roles of microgrid and blockchain to go beyond P2P energy trading. Applied Energy, 2022, 314, 119003.	10.1	52
113	A Communication-Less Distributed Control Architecture for Islanded Microgrids With Renewable Generation and Storage. IEEE Transactions on Power Electronics, 2018, 33, 1922-1939.	7.9	49
114	Recent Developments and Challenges on AC Microgrids Fault Detection and Protection Systemsâ€™A Review. Energies, 2020, 13, 2149.	3.1	49
115	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
116	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
117	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
118	Power management techniques for grid-connected DC microgrids: A comparative evaluation. Applied Energy, 2020, 269, 115057.	10.1	47
119	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
120	Virtual Admittance Loop for Voltage Harmonic Compensation in Microgrids. IEEE Transactions on Industry Applications, 2016, 52, 3348-3356.	4.9	46
121	Mode-triggered droop method for the decentralized energy management of an islanded hybrid PV/hydrogen/battery DC microgrid. Energy, 2020, 199, 117441.	8.8	46
122	A True Open-Loop Synchronization Technique. IEEE Transactions on Industrial Informatics, 2016, 12, 1093-1103.	11.3	45
123	An Adaptive Resonant Regulator for Single-Phase Grid-Tied VSCs. IEEE Transactions on Power Electronics, 2018, 33, 1867-1873.	7.9	45
124	Pinning-Based Hierarchical and Distributed Cooperative Control for AC Microgrid Clusters. IEEE Transactions on Power Electronics, 2020, 35, 9865-9885.	7.9	45
125	dq -Frame Impedance Modeling of Three-Phase Grid-Tied Voltage Source Converters Equipped With Advanced PLLs. IEEE Transactions on Power Electronics, 2021, 36, 3524-3539.	7.9	45
126	System-Level Large-Signal Stability Analysis of Droop-Controlled DC Microgrids. IEEE Transactions on Power Electronics, 2021, 36, 4224-4236.	7.9	45

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127	Selective compensation of voltage harmonics in grid-connected microgrids. Mathematics and Computers in Simulation, 2013, 91, 211-228.	4.4	42
128	Multiagent based distributed control for state-of-charge balance of distributed energy storage in DC microgrids. , 2014, , .		42
129	A New "Doctor and Patient" Optimization Algorithm: An Application to Energy Commitment Problem. Applied Sciences (Switzerland), 2020, 10, 5791.	2.5	42
130	Coordinated Secondary Control for Balanced Discharge Rate of Energy Storage System in Islanded AC Microgrids. IEEE Transactions on Industry Applications, 2016, 52, 5019-5028.	4.9	41
131	Hybrid Adaptive/Nonadaptive Delayed Signal Cancellation-Based Phase-Locked Loop. IEEE Transactions on Industrial Electronics, 2017, 64, 470-479.	7.9	41
132	Overload and Short-Circuit Protection Strategy for Voltage Source Inverter-Based UPS. IEEE Transactions on Power Electronics, 2019, 34, 11371-11382.	7.9	41
133	Stochastic Predictive Energy Management of Multi-Microgrid Systems. Applied Sciences (Switzerland), 2020, 10, 4833.	2.5	41
134	A comprehensive overview of framework for developing sustainable energy internet: From things-based energy network to services-based management system. Renewable and Sustainable Energy Reviews, 2021, 150, 111409.	16.4	41
135	P2P energy trading: Blockchain-enabled P2P energy society with multi-scale flexibility services. Energy Reports, 2022, 8, 3614-3628.	5.1	41
136	Distributed consensus-based control of multiple DC-microgrids clusters. , 2014, , .		40
137	Flexible System Integration and Advanced Hierarchical Control Architectures in the Microgrid Research Laboratory of Aalborg University. IEEE Transactions on Industry Applications, 2015, , 1-1.	4.9	40
138	DAVIC: A New Distributed Adaptive Virtual Impedance Control for Parallel-Connected Voltage Source Inverters in Modular UPS System. IEEE Transactions on Power Electronics, 2019, 34, 5953-5968.	7.9	40
139	Protection of AC and DC microgrids: Challenges, solutions and future trends. , 2015, , .		39
140	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
141	Triangle Carrier-Based DPWM for Three-Level NPC Inverters. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2018, 6, 1966-1978.	5.4	39
142	Extended-Optimal-Power-Flow-Based Hierarchical Control for Islanded AC Microgrids. IEEE Transactions on Power Electronics, 2019, 34, 840-848.	7.9	39
143	A Non-Isolated High Step-Up DC-DC Converter Using Voltage Lift Technique: Analysis, Design, and Implementation. IEEE Access, 2022, 10, 6338-6347.	4.2	39
144	Gibbs distribution analysis of temporal correlations structure in retina ganglion cells. Journal of Physiology (Paris), 2012, 106, 120-127.	2.1	38

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145	Control Architecture for Parallel Inverter in Uninterruptible Power Systems - Part I: Control Design and Experimental Results. IEEE Transactions on Power Electronics, 2015, , 1-1.	7.9	38
146	DCOffset Rejection in Phase-locked loops: A Novel Approach. IEEE Transactions on Industrial Electronics, 2016, , 1-1.	7.9	37
147	A Nonadaptive Window-Based PLL for Single-Phase Applications. IEEE Transactions on Power Electronics, 2018, 33, 24-31.	7.9	37
148	A Linear Quadratic Regulator With Optimal Reference Tracking for Three-Phase Inverter-Based Islanded Microgrids. IEEE Transactions on Power Electronics, 2021, 36, 7112-7122.	7.9	37
149	New Challenges in the Design of Microgrid Systems: Communication Networks, Cyberattacks, and Resilience. IEEE Electrification Magazine, 2020, 8, 98-106.	1.8	37
150	Modeling, analysis, and design of stationary reference frame droop controlled parallel three-phase voltage source inverters. , 2011, , .		36
151	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
152	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
153	An Open-Loop Grid Synchronization Approach for Single-Phase Applications. IEEE Transactions on Power Electronics, 2018, 33, 5548-5555.	7.9	36
154	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
155	Fuzzy-logic-based gain-scheduling control for state-of-charge balance of distributed energy storage systems for DC microgrids. , 2014, , .		35
156	Distributed Average Integral Secondary Control for Modular UPS Systems-Based Microgrids. IEEE Transactions on Power Electronics, 2019, 34, 6922-6936.	7.9	35
157	Grid simulator for power quality assessment of microgrids. IET Power Electronics, 2013, 6, 700-709.	2.1	34
158	Research On Variable-Length Transfer Delay and Delayed-Signal-Cancellation-Based PLLs. IEEE Transactions on Power Electronics, 2018, 33, 8388-8398.	7.9	34
159	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
160	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
161	Study of large-signal stability of an inverter-based generator using a Lyapunov function. , 2014, , .		33
162	Coordinated Control of a Hybrid-Electric-Ferry Shipboard Microgrid. IEEE Transactions on Transportation Electrification, 2019, 5, 828-839.	7.8	33

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163	A Robust and Fast Synchronization Technique for Adverse Grid Conditions. IEEE Transactions on Industrial Electronics, 2017, 64, 3188-3194.	7.9	32
164	A PLL-Based Controller for Three-Phase Grid-Connected Power Converters. IEEE Transactions on Power Electronics, 2018, 33, 911-916.	7.9	32
165	Peer-to-Peer Energy Market for Community Microgrids [Technology Leaders]. IEEE Electrification Magazine, 2018, 6, 102-107.	1.8	32
166	Advanced Single-Phase DSC-Based PLLs. IEEE Transactions on Power Electronics, 2019, 34, 3226-3238.	7.9	32
167	Modeling and Stability Assessment of Single-Phase Grid Synchronization Techniques: Linear Time-Periodic Versus Linear Time-Invariant Frameworks. IEEE Transactions on Power Electronics, 2019, 34, 20-27.	7.9	32
168	Energy Harvesting From Harbor Cranes With Flywheel Energy Storage Systems. IEEE Transactions on Industry Applications, 2019, 55, 3354-3364.	4.9	31
169	Using smart meters data for energy management operations and power quality monitoring in a microgrid. , 2017, , .		30
170	DC-Link Protection and Control in Modular Uninterruptible Power Supply. IEEE Transactions on Industrial Electronics, 2018, 65, 3942-3953.	7.9	30
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