Josep M Guerrero

List of Publications by Year in descending order

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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	DC Microgrid Protection: A Comprehensive Review. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2024, , 1-1.	5.4	198
2	Optimization-Based Power and Energy Management System in Shipboard Microgrid: A Review. IEEE Systems Journal, 2022, 16, 578-590.	4.6	55
3	Cyberattack Detection for Converter-Based Distributed dc Microgrids: Observer-Based Approaches. IEEE Industrial Electronics Magazine, 2022, 16, 67-77.	2.6	17
4	Robust Frequency Control in Interconnected Microgrids: An H$_2$/H$_{infty }$ Control Approach. IEEE Systems Journal, 2022, 16, 2044-2055.	4.6	13
5	Using deep learning and meteorological parameters to forecast the photovoltaic generators intra-hour output power interval for smart grid control. Energy, 2022, 239, 122116.	8.8	27
6	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
7	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
8	More-Stable EPLL. IEEE Transactions on Power Electronics, 2022, 37, 1003-1011.	7.9	17
9	Distributed Event-Triggered Control for Reactive, Unbalanced, and Harmonic Power Sharing in Islanded AC Microgrids. IEEE Transactions on Industrial Electronics, 2022, 69, 1548-1560.	7.9	33
10	Cyber-Resilient Cooperative Control of DC Microgrid Clusters. IEEE Systems Journal, 2022, 16, 1996-2007.	4.6	13
11	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
12	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
13	Multifunctional UPQC operating as an interface converter between hybrid AC-DC microgrids and utility grids. International Journal of Electrical Power and Energy Systems, 2022, 136, 107638.	5.5	5
14	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
15	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
16	An online energy management system for AC/DC residential microgrids supported by non-intrusive load monitoring. Applied Energy, 2022, 307, 118136.	10.1	24
17	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
18	Power quality assessment using signal periodicity independent algorithms â€“ A shipboard microgrid case study. Applied Energy, 2022, 307, 118151.	10.1	2

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19	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
20	A Review of DC Shipboard Microgridsâ€"Part I: Power Architectures, Energy Storage, and Power Converters. IEEE Transactions on Power Electronics, 2022, 37, 5155-5172.	7.9	78
21	An Integrated Synchronization and Control Strategy for Parallel-Operated Inverters Based on Vâ€"I Droop Characteristics. IEEE Transactions on Power Electronics, 2022, 37, 5373-5384.	7.9	3
22	A Frequency Independent Technique to Estimate Harmonics and Interharmonics in Shipboard Microgrids. IEEE Transactions on Smart Grid, 2022, 13, 888-899.	9.0	10
23	Microgrid Digital Twins: Concepts, Applications, and Future Trends. IEEE Access, 2022, 10, 2284-2302.	4.2	68
24	Stochastic optimal power flow in islanded DC microgrids with correlated load and solar PV uncertainties. Applied Energy, 2022, 307, 118090.	10.1	11
25	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
26	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
27	A Comprehensive Review of Control Strategies and Optimization Methods for Individual and Community Microgrids. IEEE Access, 2022, 10, 15935-15955.	4.2	48
28	Comprehensive Review on Renewable Energy Sources in Egyptâ€"Current Status, Grid Codes and Future Vision. IEEE Access, 2022, 10, 4081-4101.	4.2	52
29	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
30	Investment opportunities: Hydrogen production or BTC mining?. International Journal of Hydrogen Energy, 2022, 47, 5733-5744.	7.1	15
31	Hierarchically controlled ecological life support systems. Computers and Chemical Engineering, 2022, 157, 107625.	3.8	1
32	False Data Injection Cyber-Attacks Detection for Multiple DC Microgrid Clusters. Applied Energy, 2022, 310, 118425.	10.1	30
33	LTP Modeling and Stability Assessment of Multiple Second-Order Generalized Integrator-Based Signal Processing/Synchronization Algorithms and Their Close Variants. IEEE Transactions on Power Electronics, 2022, 37, 5062-5077.	7.9	10
34	Effect of Battery Degradation on the Probabilistic Optimal Operation of Renewable-Based Microgrids. Electricity, 2022, 3, 53-74.	2.8	7
35	Energy management system for a hybrid PV-Wind-Tidal-Battery-based islanded DC microgrid: Modeling and experimental validation. Renewable and Sustainable Energy Reviews, 2022, 159, 112093.	16.4	28
36	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

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37	Adaptive Power Management of Hierarchical Controlled Hybrid Shipboard Microgrids. IEEE Access, 2022, 10, 21397-21411.	4.2	15
38	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
39	An Adaptive Dynamic Reference Control for Power Converters in a Microgrid. IEEE Transactions on Power Electronics, 2022, 37, 9164-9174.	7.9	6
40	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
41	A Novel Circulating Current Suppression for Paralleled Current Source Converter Based on Virtual Impedance Concept. Energies, 2022, 15, 1952.	3.1	5
42	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
43	Stability Boundary Analysis of Islanded Droop-Based Microgrids Using an Autonomous Shooting Method. Energies, 2022, 15, 2120.	3.1	1
44	Marketability analysis of green hydrogen production in Denmark: Scale-up effects on grid-connected electrolysis. International Journal of Hydrogen Energy, 2022, 47, 12443-12455.	7.1	28
45	Event-triggered distributed voltage regulation by heterogeneous BESS in low-voltage distribution networks. Applied Energy, 2022, 312, 118597.	10.1	11
46	Towards collective energy Community: Potential roles of microgrid and blockchain to go beyond P2P energy trading. Applied Energy, 2022, 314, 119003.	10.1	52
47	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
48	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
49	A Reference-Feedforward-Based Damping Method for Virtual Synchronous Generator Control. IEEE Transactions on Power Electronics, 2022, 37, 7566-7571.	7.9	22
50	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
51	Electric cars, ships, and their charging infrastructure â€“ A comprehensive review. Sustainable Energy Technologies and Assessments, 2022, 52, 102177.	2.7	17
52	The concept of direct adaptive control for improving voltage and frequency regulation loops in several power system applications. International Journal of Electrical Power and Energy Systems, 2022, 140, 108068.	5.5	26
53	A comprehensive review on telecommunication challenges of microgrids secondary control. International Journal of Electrical Power and Energy Systems, 2022, 140, 108081.	5.5	17
54	P2P energy trading: Blockchain-enabled P2P energy society with multi-scale flexibility services. Energy Reports, 2022, 8, 3614-3628.	5.1	41

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55	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
56	Power-flow-based energy management of hierarchically controlled islanded AC microgrids. International Journal of Electrical Power and Energy Systems, 2022, 141, 108140.	5.5	25
57	Stochastic Optimal Strategy for Power Management in Interconnected Multi-Microgrid Systems. Electronics (Switzerland), 2022, 11, 1424.	3.1	10
58	A distributed real-time power management scheme for shipboard zonal multi-microgrid system. Applied Energy, 2022, 317, 119072.	10.1	11
59	A Comprehensive Review on Small Satellite Microgrids. IEEE Transactions on Power Electronics, 2022, 37, 12741-12762.	7.9	22
60	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
61	Electrical distribution network: Existing problems. , 2022, , 17-26.		0
62	Hesitant fuzzy for conflicting criteria in multi-objective deployment of electric vehicle charging stations. Sustainable Cities and Society, 2022, 85, 104054.	10.4	6
63	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
64	Flatness-Based Decentralized Control of Bidirectional Interlink Power Converters in Grid-Connected Hybrid Microgrids Using Adaptive High-Gain PI-Observer. IEEE Systems Journal, 2021, 15, 478-486.	4.6	10
65	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
66	Wavelet-Based Monitor for Grid Impedance Estimation of Three-Phase Networks. IEEE Transactions on Industrial Electronics, 2021, 68, 2564-2574.	7.9	19
67	ÂA 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
68	Voltage and Frequency Consensusability of Autonomous Microgrids Over Fading Channels. IEEE Transactions on Energy Conversion, 2021, 36, 149-158.	5.2	8
69	Virtual Resistance Tradeoff Design for DCMG Grid-Forming Converters Considering Static- and Large-Signal Dynamic Constraints. IEEE Transactions on Power Electronics, 2021, 36, 5582-5593.	7.9	10
70	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
71	Passivity-Based Design of Repetitive Controller for LCL-Type Grid-Connected Inverters Suitable for Microgrid Applications. IEEE Transactions on Power Electronics, 2021, 36, 2420-2431.	7.9	27
72	Model predictive control of microgrids â€“ An overview. Renewable and Sustainable Energy Reviews, 2021, 136, 110422.	16.4	182

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74	Nonlinear adaptive control design with average performance analysis for photovoltaic system based on half bridge shunt active power filter. International Journal of Electrical Power and Energy Systems, 2021, 125, 106478.	5.5	26
75	Modular multilevel converter based multi-terminal hybrid AC/DC microgrid with improved energy control method. Applied Energy, 2021, 282, 116154.	10.1	22
76	Comprehensive power flow modelling of hierarchically controlled AC/DC hybrid islanded microgrids. International Journal of Electrical Power and Energy Systems, 2021, 127, 106629.	5.5	10
77	Wavelet-Based Frequency Tracking Monitor Applied for Low-Inertia AC Microgrids. IEEE Transactions on Power Electronics, 2021, 36, 6674-6684.	7.9	8
78	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
79	Active resonance damping and harmonics compensation in distributed generation based islanded microgrids. Electric Power Systems Research, 2021, 191, 106900.	3.6	11
80	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
81	Hybrid Model Predictive Control for Modified Modular Multilevel Switch-Mode Power Amplifier. IEEE Transactions on Power Electronics, 2021, 36, 5302-5322.	7.9	6
82	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
83	Linear Time-Periodic Modeling, Examination, and Performance Enhancement of Grid Synchronization Systems With DC Component Rejection/Estimation Capability. IEEE Transactions on Power Electronics, 2021, 36, 4237-4253.	7.9	20
84	System-Level Large-Signal Stability Analysis of Droop-Controlled DC Microgrids. IEEE Transactions on Power Electronics, 2021, 36, 4224-4236.	7.9	45
85	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
86	LTP Modeling of Single-Phase $T/4$ Delay-Based PLLs. IEEE Transactions on Industrial Electronics, 2021, 68, 9003-9008.	7.9	11
87	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
88	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
89	Voltage Unbalance Compensation in AC Microgrids. Power Systems, 2021, , 337-373.	0.5	0
90	An Effective Algorithm for MAED Problems with a New Reliability Model at the Microgrid. Electronics (Switzerland), 2021, 10, 257.	3.1	8

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91	Fault Management in DC Microgrids: A Review of Challenges, Countermeasures, and Future Research Trends. IEEE Access, 2021, 9, 128032-128054.	4.2	30
92	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
93	Future Greener Seaports: A Review of New Infrastructure, Challenges, and Energy Efficiency Measures. IEEE Access, 2021, 9, 75568-75587.	4.2	47
94	Passivity Enhancement of Voltage-Controlled Inverters in Grid-Connected Microgrids Considering Negative Aspects of Control Delay and Grid Impedance Variations. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 6637-6649.	5.4	19
95	Principle of Flexible Ground-Fault Arc Suppression Device Based on Zero-Sequence Voltage Regulation. IEEE Access, 2021, 9, 2382-2389.	4.2	21
96	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
97	Identifiability Evaluation of Crucial Parameters for Grid Connected Photovoltaic Power Plants Design Optimization. IEEE Access, 2021, 9, 108754-108771.	4.2	11
98	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
99	Resilient Design of Robust Multi-Objectives PID Controllers for Automatic Voltage Regulators: D-Decomposition Approach. IEEE Access, 2021, 9, 106589-106605.	4.2	33
100	Linear Quadratic Regulator Based Smooth Transition Between Microgrid Operation Modes. IEEE Transactions on Smart Grid, 2021, 12, 4854-4864.	9.0	10
101	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
102	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
103	Logarithmic droopâ€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
104	A Very Short-Term Probabilistic Prediction Interval Forecaster for Reducing Load Uncertainty Level in Smart Grids. Applied Sciences (Switzerland), 2021, 11, 2538.	2.5	4
105	Optimum Sizing of Photovoltaic and Energy Storage Systems for Powering Green Base Stations in Cellular Networks. Energies, 2021, 14, 1895.	3.1	14
106	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
107	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
108	MPC-informed ECMS based real-time power management strategy for hybrid electric ship. Energy Reports, 2021, 7, 126-133.	5.1	30

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109	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
110	Distributed control strategy for DC microgrids based on average consensus and fractionalâ€order local controllers. IET Smart Grid, 2021, 4, 549-560.	2.2	4
111	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
112	A New Two-Stage Algorithm for Solving Optimization Problems. Entropy, 2021, 23, 491.	2.2	25
113	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
114	Attack detection design for dc microgrid using eigenvalue assignment approach. Energy Reports, 2021, 7, 469-476.	5.1	18
115	A New Decentralized Control Strategy of Microgrids in the Internet of Energy Paradigm. Energies, 2021, 14, 2183.	3.1	39
116	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
117	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
118	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
119	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
120	A Novel Real-Time Electricity Scheduling for Home Energy Management System Using the Internet of Energy. Energies, 2021, 14, 3191.	3.1	33
121	A review of reactive power sharing control techniques for islanded microgrids. Renewable and Sustainable Energy Reviews, 2021, 141, 110745.	16.4	30
122	A modified indirect extraction method for a single-phase shunt active power filter with smaller DC-link capacitor size. Sustainable Energy Technologies and Assessments, 2021, 45, 101039.	2.7	4
123	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
124	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
125	Hierarchical Control of Space Closed Ecosystems: Expanding Microgrid Concepts to Bioastronautics. IEEE Industrial Electronics Magazine, 2021, 15, 16-27.	2.6	7
126	Charging station Stochastic Programming for Hydrogen/Battery Electric Buses using Multi-Criteria Crow Search Algorithm. Renewable and Sustainable Energy Reviews, 2021, 144, 111046.	16.4	26

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127	AC vs. DC Distribution Efficiency: Are We on the Right Path?. Energies, 2021, 14, 4039.	3.1	9
128	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
129	AC Microgrids Protection: A Digital Coordinated Adaptive Scheme. Applied Sciences (Switzerland), 2021, 11, 7066.	2.5	4
130	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
131	Reliability enhancement and voltage profile improvement of distribution network using optimal capacity allocation and placement of distributed energy resources. Computers and Electrical Engineering, 2021, 93, 107295.	4.8	20
132	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
133	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
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135	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
136	Compensation of distortions in VSC-based DCâ€“AC power systems using a modified vector control method. Control Engineering Practice, 2021, 114, 104864.	5.5	5
137	Message Queuing Telemetry Transport Communication Infrastructure for Grid-Connected AC Microgrids Management. Energies, 2021, 14, 5610.	3.1	5
138	Coordinated Control of Diesel Generators and Batteries in DC Hybrid Electric Shipboard Power System. Energies, 2021, 14, 6246.	3.1	9
139	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
140	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
141	Energy management system optimization in islanded microgrids: An overview and future trends. Renewable and Sustainable Energy Reviews, 2021, 149, 111327.	16.4	75
142	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
143	Hybrid automaton-fuzzy control of single phase dual buck half bridge shunt active power filter for shoot through elimination and power quality improvement. International Journal of Electrical Power and Energy Systems, 2021, 131, 106986.	5.5	19
144	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

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145	Consensus Algorithm-based Coalition Game Theory for Demand Management Scheme in Smart Microgrid. Sustainable Cities and Society, 2021, 74, 103248.	10.4	32
146	Design of power quality enhanced sustainable bidirectional electric vehicle charging station in distribution grid. Sustainable Cities and Society, 2021, 74, 103242.	10.4	31
147	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
148	A Communication-Less Multimode Control Approach for Adaptive Power Sharing in Ship-Based Seaport Microgrid. IEEE Transactions on Transportation Electrification, 2021, 7, 3070-3082.	7.8	28
149	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
150	Frequency Coupling Admittance Modeling of Quasi-PR Controlled Inverter and Its Stability Comparative Analysis Under the Weak Grid. IEEE Access, 2021, 9, 94912-94922.	4.2	10
151	Review of Power Quality Issues in Maritime Microgrids. IEEE Access, 2021, 9, 81798-81817.	4.2	32
152	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
153	Space Microgrids for Future Manned Lunar Bases: A Review. IEEE Open Access Journal of Power and Energy, 2021, 8, 570-583.	3.4	19
154	Binary Spring Search Algorithm for Solving Various Optimization Problems. Applied Sciences (Switzerland), 2021, 11, 1286.	2.5	34
155	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
156	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
157	An Energy Management System of Campus Microgrids: State-of-the-Art and Future Challenges. Energies, 2021, 14, 6525.	3.1	51
158	A Cost-Effective Disturbance Governance Framework for Low-Inertia Autonomous Microgrids. Sustainable Energy Technologies and Assessments, 2021, 48, 101640.	2.7	1
159	Active arc suppression device based on voltageâ€source convertor with consideration of line impedance in distribution networks. IET Power Electronics, 2021, 14, 2585-2596.	2.1	5
160	LoRa Enabled Smart Inverters for Microgrid Scenarios with Widespread Elements. Electronics (Switzerland), 2021, 10, 2680.	3.1	2
161	Directional element for faulty feeder identification of highâ€resistance fault in highâ€surety power supply systems. IET Generation, Transmission and Distribution, 2021, 15, 45-55.	2.5	0
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163	Modified Virtual Inertia Mechanism Based ESS for A real Multi-Source Power System Application: the Egyptian Grid. , 2021, , .		2
164	Pandemic Search Algorithm: A Metaheuristic Inspiration of COVID-19 Outbreak. , 2021, , .		0
165	A Review of the Conceptualization and Operational Management of Seaport Microgrids on the Shore and Seaside. Energies, 2021, 14, 7941.	3.1	14
166	Optimum Sizing of Photovoltaic-Battery Power Supply for Drone-Based Cellular Networks. Drones, 2021, 5, 138.	4.9	8
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