

Gevork B. Gharehpetian

List of Publications by Year in descending order

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696
papers

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701
all docs

701
docs citations

701
times ranked

10028
citing authors

#	ARTICLE	IF	CITATIONS
1	A New Multilevel Converter Topology With Reduced Number of Power Electronic Components. IEEE Transactions on Industrial Electronics, 2012, 59, 655-667.	5.2	428
2	Reduction of dc voltage sources and switches in asymmetrical multilevel converters using a novel topology. Electric Power Systems Research, 2007, 77, 1073-1085.	2.1	310
3	Reliability/cost-based multi-objective Pareto optimal design of stand-alone wind/PV/FC generation microgrid system. Energy, 2016, 115, 1022-1041.	4.5	286
4	Review of Flywheel Energy Storage Systems structures and applications in power systems and microgrids. Renewable and Sustainable Energy Reviews, 2017, 69, 9-18.	8.2	283
5	A New Topology of Cascaded Multilevel Converters With Reduced Number of Components for High-Voltage Applications. IEEE Transactions on Power Electronics, 2011, 26, 3109-3118.	5.4	215
6	Double Flying Capacitor Multicell Converter Based on Modified Phase-Shifted Pulsewidth Modulation. IEEE Transactions on Power Electronics, 2010, 25, 1517-1526.	5.4	179
7	A comprehensive review of heuristic optimization algorithms for optimal combined heat and power dispatch from economic and environmental perspectives. Renewable and Sustainable Energy Reviews, 2018, 81, 2128-2143.	8.2	175
8	Review on Energy Storage Systems Control Methods in Microgrids. International Journal of Electrical Power and Energy Systems, 2019, 107, 745-757.	3.3	165
9	A Single-Phase Transformerless Inverter With Charge Pump Circuit Concept for Grid-Tied PV Applications. IEEE Transactions on Industrial Electronics, 2017, 64, 5403-5415.	5.2	160
10	A comprehensive method for optimal power management and design of hybrid RES-based autonomous energy systems. Renewable and Sustainable Energy Reviews, 2012, 16, 1577-1587.	8.2	154
11	Application of particle swarm optimization for distribution feeder reconfiguration considering distributed generators. Applied Mathematics and Computation, 2008, 201, 575-586.	1.4	151
12	Unit Commitment Problem Solution Using Shuffled Frog Leaping Algorithm. IEEE Transactions on Power Systems, 2011, 26, 573-581.	4.6	139
13	Optimal allocation and sizing of DG units considering voltage stability, losses and load variations. International Journal of Electrical Power and Energy Systems, 2016, 79, 42-52.	3.3	139
14	New Extendable Single-Stage Multi-input DC-DC/AC Boost Converter. IEEE Transactions on Power Electronics, 2014, 29, 775-788.	5.4	137
15	Optimal placement and sizing of DG (distributed generation) units in distribution networks by novel hybrid evolutionary algorithm. Energy, 2013, 54, 129-138.	4.5	135
16	Power Calculation Using RBF Neural Networks to Improve Power Sharing of Hierarchical Control Scheme in Multi-DER Microgrids. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2016, 4, 1217-1225.	3.7	135
17	Optimal Integration of Phasor Measurement Units in Power Systems Considering Conventional Measurements. IEEE Transactions on Smart Grid, 2013, 4, 1113-1121.	6.2	129
18	Optimization of hybrid solar energy sources/wind turbine systems integrated to utility grids as microgrid (MG) under pool/bilateral/hybrid electricity market using PSO. Solar Energy, 2012, 86, 112-125.	2.9	127

#	ARTICLE	IF	CITATIONS
19	Multiple distributed generation units allocation in distribution network for loss reduction based on a combination of analytical and genetic algorithm methods. IET Generation, Transmission and Distribution, 2016, 10, 66-72.	1.4	126
20	A generalized descriptor-system robust H ∞ control of autonomous microgrids to improve small and large signal stability considering communication delays and load nonlinearities. International Journal of Electrical Power and Energy Systems, 2017, 92, 63-82.	3.3	124
21	Five Approaches to Deal With Problem of DC Offset in Phase-Locked Loop Algorithms: Design Considerations and Performance Evaluations. IEEE Transactions on Power Electronics, 2016, 31, 648-661.	5.4	116
22	New High Step-Up Multilevel Converter Topology With Self-Voltage Balancing Ability and Its Optimization Analysis. IEEE Transactions on Industrial Electronics, 2017, 64, 7060-7070.	5.2	115
23	A review on floating photovoltaic (FPV) power generation units. Renewable and Sustainable Energy Reviews, 2019, 110, 332-347.	8.2	115
24	An Optimal Dispatch Algorithm for Managing Residential Distributed Energy Resources. IEEE Transactions on Smart Grid, 2014, 5, 2360-2367.	6.2	114
25	GA-based optimal sizing of microgrid and DG units under pool and hybrid electricity markets. International Journal of Electrical Power and Energy Systems, 2012, 35, 83-92.	3.3	108
26	Decentralized Sliding Mode Control of WG/PV/FC Microgrids Under Unbalanced and Nonlinear Load Conditions for On- and Off-Grid Modes. IEEE Systems Journal, 2018, 12, 3108-3119.	2.9	106
27	Improving Fault Ride-Through Capability of Fixed-Speed Wind Turbine by Using Bridge-Type Fault Current Limiter. IEEE Transactions on Energy Conversion, 2013, 28, 361-369.	3.7	104
28	Multi-objective optimal power management and sizing of a reliable wind/PV microgrid with hydrogen energy storage using MOPSO. Journal of Intelligent and Fuzzy Systems, 2017, 32, 1753-1773.	0.8	104
29	Nonlinear Load Sharing and Voltage Compensation of Microgrids Based on Harmonic Power-Flow Calculations Using Radial Basis Function Neural Networks. IEEE Systems Journal, 2018, 12, 2749-2759.	2.9	101
30	Combined heat and power economic dispatch problem solution by implementation of whale optimization method. Neural Computing and Applications, 2019, 31, 421-436.	3.2	100
31	Three-phase AC/DC power flow for balanced/unbalanced microgrids including wind/solar, droop-controlled and electronically-coupled distributed energy resources using radial basis function neural networks. IET Power Electronics, 2017, 10, 313-328.	1.5	95
32	An Innovative Scheme of Symmetric Multilevel Voltage Source Inverter With Lower Number of Circuit Devices. IEEE Transactions on Industrial Electronics, 2015, 62, 6965-6973.	5.2	94
33	LVRT Performance Enhancement of DFIG-Based Wind Farms by Capacitive Bridge-Type Fault Current Limiter. IEEE Transactions on Sustainable Energy, 2018, 9, 1118-1125.	5.9	93
34	Application of RBF neural networks and unscented transformation in probabilistic power-flow of microgrids including correlated wind/PV units and plug-in hybrid electric vehicles. Simulation Modelling Practice and Theory, 2017, 72, 51-68.	2.2	89
35	Comparison of Transformer Detailed Models for Fast and Very Fast Transient Studies. IEEE Transactions on Power Delivery, 2008, 23, 733-741.	2.9	86
36	ANN and cross-correlation based features for discrimination between electrical and mechanical defects and their localization in transformer winding. IEEE Transactions on Dielectrics and Electrical Insulation, 2014, 21, 2374-2382.	1.8	85

#	ARTICLE	IF	CITATIONS
37	Long term scheduling for optimal allocation and sizing of DG unit considering load variations and DG type. International Journal of Electrical Power and Energy Systems, 2014, 54, 277-287.	3.3	83
38	Optimal sizing and techno-economic analysis of energy- and cost-efficient standalone multi-carrier microgrid. Energy, 2019, 178, 751-764.	4.5	83
39	Robust Short-Term Scheduling of Integrated Heat and Power Microgrids. IEEE Systems Journal, 2019, 13, 3295-3303.	2.9	82
40	Real-time verification of new controller to improve small/large-signal stability and fault ride-through capability of multi-DER microgrids. IET Generation, Transmission and Distribution, 2016, 10, 3068-3084.	1.4	81
41	Bridge-Type Solid-State Fault Current Limiter Based on AC/DC Reactor. IEEE Transactions on Power Delivery, 2016, 31, 200-209.	2.9	80
42	Introducing a Novel DC Power Flow Method With Reactive Power Considerations. IEEE Transactions on Power Systems, 2015, 30, 3012-3023.	4.6	79
43	Performance Improvement of Multi-DER Microgrid for Small- and Large-Signal Disturbances and Nonlinear Loads: Novel Complementary Control Loop and Fuzzy Controller in a Hierarchical Droop-Based Control Scheme. IEEE Systems Journal, 2018, 12, 444-451.	2.9	79
44	MOPSO/FDMT-based Pareto-optimal solution for coordination of overcurrent relays in interconnected networks and multi-DER microgrids. IET Generation, Transmission and Distribution, 2018, 12, 2871-2886.	1.4	79
45	Short-term scheduling of hydro-based power plants considering application of heuristic algorithms: A comprehensive review. Renewable and Sustainable Energy Reviews, 2017, 74, 116-129.	8.2	77
46	Reliability Considerations for Parallel Performance of Semiconductor Switches in High-Power Switching Power Supplies. IEEE Transactions on Industrial Electronics, 2009, 56, 2133-2139.	5.2	76
47	Fuzzy unscented transform for uncertainty quantification of correlated wind/PV microgrids: possibilistic probabilistic power flow based on RBFNNs. IET Renewable Power Generation, 2017, 11, 867-877.	1.7	76
48	Optimal Overcurrent Relay Coordination in Interconnected Networks by Using Fuzzy-Based GA Method. IEEE Transactions on Smart Grid, 2018, 9, 3091-3101.	6.2	76
49	A survey on fault current limiters: Development and technical aspects. International Journal of Electrical Power and Energy Systems, 2020, 118, 105729.	3.3	76
50	Unbalanced harmonic power sharing and voltage compensation of microgrids using radial basis function neural network-based harmonic power flow calculations for distributed and decentralised control structures. IET Generation, Transmission and Distribution, 2018, 12, 1518-1530.	1.4	75
51	Flexible Power Electronic Transformer. IEEE Transactions on Power Electronics, 2010, 25, 2159-2169.	5.4	73
52	A New Method for Islanding Detection of Inverter-Based Distributed Generation Using DC-Link Voltage Control. IEEE Transactions on Power Delivery, 2011, 26, 1176-1186.	2.9	73
53	Simultaneous Parameter Identification of Synchronous Generator and Excitation System Using Online Measurements. IEEE Transactions on Smart Grid, 2016, 7, 1230-1238.	6.2	72
54	IoT Architecture for Smart Grids. , 2019, , .		72

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55	Hybrid modelling of inhomogeneous transformer winding for very fast transient overvoltage studies. IEEE Transactions on Power Delivery, 1998, 13, 157-163.	2.9	71
56	An investigation on combined operation of active power filter with photovoltaic arrays. International Journal of Electrical Power and Energy Systems, 2013, 46, 392-399.	3.3	71
57	HVDC Circuit Breakers: A Comprehensive Review. IEEE Transactions on Power Electronics, 2021, 36, 13726-13739.	5.4	71
58	Classification and Discrimination Among Winding Mechanical Defects, Internal and External Electrical Faults, and Inrush Current of Transformer. IEEE Transactions on Industrial Informatics, 2018, 14, 484-493.	7.2	70
59	Optimization of distributed generation capacities in buildings under uncertainty in load demand. Energy and Buildings, 2013, 57, 58-64.	3.1	68
60	A Decentralized Robust Mixed H_2/H_∞ Voltage Control Scheme to Improve Small/Large-Signal Stability and FRT Capability of Islanded Multi-DER Microgrid Considering Load Disturbances. IEEE Systems Journal, 2018, 12, 2610-2621.	2.9	68
61	Chance-constrained models for transactive energy management of interconnected microgrid clusters. Journal of Cleaner Production, 2020, 271, 122177.	4.6	68
62	Three-Phase HFL-DVR With Independently Controlled Phases. IEEE Transactions on Power Electronics, 2012, 27, 1706-1718.	5.4	67
63	Flexible Control of Power Flow in Multiterminal DC Grids Using DC-DC Converter. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2016, 4, 1135-1144.	3.7	67
64	Novel Calculation Method of Indices to Improve Classification of Transformer Winding Fault Type, Location, and Extent. IEEE Transactions on Industrial Informatics, 2017, 13, 1531-1540.	7.2	67
65	Cost-based optimal siting and sizing of electric vehicle charging stations considering demand response programmes. IET Generation, Transmission and Distribution, 2018, 12, 1712-1720.	1.4	67
66	Case study: Simulation and optimization of photovoltaic-wind-battery hybrid energy system in Taleghan-Iran using HOMER software. Journal of Renewable and Sustainable Energy, 2012, 4, .	0.8	66
67	A new current limiting strategy and fault model to improve fault ride-through capability of inverter interfaced DERs in autonomous microgrids. Sustainable Energy Technologies and Assessments, 2017, 24, 71-81.	1.7	64
68	Siting and sizing of DG units using GA and OPF based technique. , 0, , .		63
69	Application of Duffing Oscillators for Passive Islanding Detection of Inverter-Based Distributed Generation Units. IEEE Transactions on Power Delivery, 2012, 27, 1973-1983.	2.9	60
70	Robust Control Strategies for Microgrids: A Review. IEEE Systems Journal, 2022, 16, 2401-2412.	2.9	60
71	Improved selective harmonic elimination pulse-width modulation strategy in multilevel inverters. IET Power Electronics, 2012, 5, 1904-1911.	1.5	59
72	Ladder Network Parameters Determination Considering Nondominant Resonances of the Transformer Winding. IEEE Transactions on Power Delivery, 2014, 29, 108-117.	2.9	58

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73	Designing SSSC, TCSC, and STATCOM controllers using AVURPSO, GSA, and GA for transient stability improvement of a multi-machine power system with PV and wind farms. <i>International Journal of Electrical Power and Energy Systems</i> , 2019, 106, 455-466.	3.3	57
74	Security/cost-based optimal allocation of multi-type FACTS devices using multi-objective particle swarm optimization. <i>Simulation</i> , 2012, 88, 999-1010.	1.1	56
75	Anti-Islanding Scheme for Synchronous DG Units Based on Tufts's Kumaresan Signal Estimation Method. <i>IEEE Transactions on Power Delivery</i> , 2013, 28, 2185-2193.	2.9	56
76	Coordinated Control of Distributed Energy Resources and Conventional Power Plants for Frequency Control of Power Systems. <i>IEEE Transactions on Smart Grid</i> , 2015, 6, 104-114.	6.2	56
77	Cooperative Fault-Tolerant Control of Microgrids Under Switching Communication Topology. <i>IEEE Transactions on Smart Grid</i> , 2020, 11, 1866-1879.	6.2	56
78	Multiinput Direct DC-AC Converter With High-Frequency Link for Clean Power-Generation Systems. <i>IEEE Transactions on Power Electronics</i> , 2011, 26, 1777-1789.	5.4	54
79	Hyperbolic S-transform-based method for classification of external faults, incipient faults, inrush currents and internal faults in power transformers. <i>IET Generation, Transmission and Distribution</i> , 2012, 6, 940.	1.4	54
80	A New Partial Discharge Signal Denoising Algorithm Based on Adaptive Dual-Tree Complex Wavelet Transform. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2018, 67, 2262-2272.	2.4	54
81	Novel Islanding Detection Method for Multiple DGs Based on Forced Helmholtz Oscillator. <i>IEEE Transactions on Smart Grid</i> , 2018, 9, 6448-6460.	6.2	54
82	Verification of a new energy control strategy for dynamic voltage restorer by simulation. <i>Simulation Modelling Practice and Theory</i> , 2006, 14, 112-125.	2.2	53
83	Dynamic performance enhancement of microgrids by advanced sliding mode controller. <i>International Journal of Electrical Power and Energy Systems</i> , 2011, 33, 1-7.	3.3	52
84	A Novel Solid-State Fault Current-Limiting Circuit Breaker for Medium-Voltage Network Applications. <i>IEEE Transactions on Power Delivery</i> , 2016, 31, 236-244.	2.9	52
85	Power System Stability Analysis Using Feedback Control System Modeling Including HVDC Transmission Links. <i>IEEE Transactions on Power Systems</i> , 2016, 31, 116-124.	4.6	52
86	Distributed Fault-Tolerant Voltage/Frequency Synchronization in Autonomous AC Microgrids. <i>IEEE Transactions on Power Systems</i> , 2020, 35, 3774-3789.	4.6	51
87	Comprehensive review on the strategies for controlling the interconnection of AC and DC microgrids. <i>International Journal of Electrical Power and Energy Systems</i> , 2022, 136, 107742.	3.3	51
88	Information Gap Decision Theory-Based Active Distribution System Planning for Resilience Enhancement. <i>IEEE Transactions on Smart Grid</i> , 2020, 11, 4390-4402.	6.2	50
89	Output power smoothing of variable speed wind farms using rotor-inertia. <i>Electric Power Systems Research</i> , 2014, 116, 208-217.	2.1	48
90	Optimized Fuzzy Controller for MPPT of Grid-connected PV Systems in Rapidly Changing Atmospheric Conditions. <i>Journal of Modern Power Systems and Clean Energy</i> , 2021, 9, 376-383.	3.3	48

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91	Robust optimization of distributed generation investment in buildings. Energy, 2012, 48, 455-463.	4.5	47
92	A probabilistic feature to determine type and extent of winding mechanical defects in power transformers. Electric Power Systems Research, 2012, 82, 1-10.	2.1	47
93	Inclusive Design and Implementation of Novel 40-Pulse AC-DC Converter for Retrofit Applications and Harmonic Mitigation. IEEE Transactions on Industrial Electronics, 2016, 63, 667-677.	5.2	45
94	Multiterminal DC grids: Operating analogies to AC power systems. Renewable and Sustainable Energy Reviews, 2017, 70, 886-895.	8.2	45
95	A New Transformer FRA Measurement Technique to Reach Smart Interpretation for Inter-Disk Faults. IEEE Transactions on Power Delivery, 2019, 34, 1508-1519.	2.9	45
96	Overcurrent Relays Coordination in Interconnected Networks Using Accurate Analytical Method and Based on Determination of Fault Critical Point. IEEE Transactions on Power Delivery, 2015, 30, 870-877.	2.9	44
97	Integrated Model Considering Effects of Zero Injection Buses and Conventional Measurements on Optimal PMU Placement. IEEE Transactions on Smart Grid, 2015, , 1-1.	6.2	44
98	New family of non-isolated step-up/down and step-up switched-capacitor-based DC-DC converters. IET Power Electronics, 2019, 12, 1706-1720.	1.5	44
99	A Novel Power Swing Detection Scheme Independent of the Rate of Change of Power System Parameters. IEEE Transactions on Power Delivery, 2014, 29, 1192-1202.	2.9	43
100	Series Transformer-Based Solid State Fault Current Limiter. IEEE Transactions on Smart Grid, 2015, 6, 1983-1991.	6.2	43
101	Application of Hyper-Spherical Search algorithm for optimal energy resources dispatch in residential microgrids. Applied Soft Computing Journal, 2015, 37, 15-23.	4.1	43
102	Optimal wind turbine allocation and network reconfiguration for enhancing resiliency of system after major faults caused by natural disaster considering uncertainty. IET Renewable Power Generation, 2018, 12, 1413-1423.	1.7	43
103	Power Management of Microgrids Including PHEVs Based on Maximum Employment of Renewable Energy Resources. IEEE Transactions on Industry Applications, 2020, 56, 5299-5307.	3.3	43
104	Optimal Scheduling of Residential Energy System Including Combined Heat and Power System and Storage Device. Electric Power Components and Systems, 2013, 41, 765-781.	1.0	42
105	Multi-terminal HVDC grids with inertia mimicry capability. IET Renewable Power Generation, 2016, 10, 752-760.	1.7	42
106	Experimental Studies on Monitoring and Metering of Radial Deformations on Transformer HV Winding Using Image Processing and UWB Transceivers. IEEE Transactions on Industrial Informatics, 2015, 11, 1334-1345.	7.2	41
107	Application of hyper-spherical search algorithm for optimal coordination of overcurrent relays considering different relay characteristics. International Journal of Electrical Power and Energy Systems, 2016, 83, 443-449.	3.3	41
108	Protection coordination of directional overcurrent relays: new time current characteristic and objective function. IET Generation, Transmission and Distribution, 2018, 12, 190-199.	1.4	41

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109	Integration of smart grid technologies in stochastic multi-objective unit commitment: An economic emission analysis. International Journal of Electrical Power and Energy Systems, 2018, 100, 565-590.	3.3	41
110	Power Flow Control of Interconnected AC-DC Microgrids in Grid-Connected Hybrid Microgrids Using Modified UIPC. IEEE Transactions on Smart Grid, 2019, 10, 6298-6307.	6.2	41
111	Internet of Energy (IoE) in Smart Power Systems. , 2019, , .		40
112	Resilient Consensus-Based Control of Autonomous AC Microgrids With Uncertain Time-Delayed Communications. IEEE Transactions on Smart Grid, 2020, 11, 3871-3884.	6.2	40
113	Resilient Synchronization of Voltage/Frequency in AC Microgrids Under Deception Attacks. IEEE Systems Journal, 2021, 15, 2125-2136.	2.9	40
114	Generalized three phase robust load-flow for radial and meshed power systems with and without uncertainty in energy resources using dynamic radial basis functions neural networks. Journal of Cleaner Production, 2018, 174, 96-113.	4.6	39
115	Short-term interaction between electric vehicles and microgrid in decentralized vehicle-to-grid control methods. Protection and Control of Modern Power Systems, 2019, 4, .	4.3	39
116	A multi-objective voltage stability constrained energy management system for isolated microgrids. International Journal of Electrical Power and Energy Systems, 2020, 117, 105646.	3.3	38
117	Combined operation of DC isolated distribution and PV systems for supplying unbalanced AC loads. Renewable Energy, 2009, 34, 899-908.	4.3	37
118	Control of three-phase inverter-based DG system during fault condition without changing protection coordination. International Journal of Electrical Power and Energy Systems, 2014, 63, 814-823.	3.3	37
119	Optimal operation of DG-based micro grid (MG) by considering demand response program (DRP). Electric Power Systems Research, 2019, 167, 252-260.	2.1	37
120	A new algorithm for localization of radial deformation and determination of deformation extent in transformer windings. Electric Power Systems Research, 2008, 78, 1701-1711.	2.1	36
121	Zero-voltage switching bi-directional power electronic transformer. IET Power Electronics, 2010, 3, 818.	1.5	36
122	Reduction of THD and low order harmonics with symmetrical output current for single-phase ac/ac matrix converters. International Journal of Electrical Power and Energy Systems, 2010, 32, 225-235.	3.3	36
123	Distributed cooperative control system for smart microgrids. Electric Power Systems Research, 2016, 130, 241-250.	2.1	36
124	Stochastic analysis of residential micro combined heat and power system. Energy Conversion and Management, 2017, 138, 190-198.	4.4	36
125	Improving Synchronous Generator Parameters Estimation Using χ^2 Axes Tests and Considering Saturation Effect. IEEE Transactions on Industrial Informatics, 2018, 14, 1898-1908.	7.2	36
126	Eigenvalue, Robustness and Time Delay Analysis of Hierarchical Control Scheme in Multi-DER Microgrid to Enhance Small/Large-Signal Stability Using Complementary Loop and Fuzzy Logic Controller. Journal of Circuits, Systems and Computers, 2017, 26, 1750099.	1.0	35

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127	Three-phase soft-switching-based interleaved boost converter with high reliability. IET Power Electronics, 2017, 10, 377-386.	1.5	35
128	Fuzzy-Adaptive Frequency Control of Power System Including Microgrids, Wind Farms, and Conventional Power Plants. IEEE Systems Journal, 2018, 12, 2772-2781.	2.9	35
129	Partial Discharge Localization Using Time Reversal: Application to Power Transformers. Sensors, 2020, 20, 1419.	2.1	35
130	Inductive fault current limiters: A review. Electric Power Systems Research, 2020, 187, 106499.	2.1	35
131	Small Signal Stability Based Fuzzy Potential Function Proposal for Secondary Frequency and Voltage Control of Islanded Microgrid. Electric Power Components and Systems, 2013, 41, 485-499.	1.0	34
132	Hyper-Spherical Search (HSS) algorithm: a novel meta-heuristic algorithm to optimize nonlinear functions. Neural Computing and Applications, 2014, 25, 1455-1465.	3.2	34
133	Electrothermal performance and environmental effects of optimal photovoltaic-thermal system. Energy Conversion and Management, 2015, 95, 326-333.	4.4	34
134	Active and reactive power control of wind farm for enhancement transient stability of multi-machine power system using UIPC. IET Renewable Power Generation, 2017, 11, 1246-1252.	1.7	34
135	Localization of winding radial deformation and determination of deformation extent using vector fitting-based estimated transfer function. European Transactions on Electrical Power, 2009, 19, 749-762.	1.0	33
136	Optimal sizing and energy management of a grid-connected microgrid using HOMER software. , 2016, , .		33
137	Power-Flow Control and Short-Circuit Current Limitation of Wind Farms Using Unified Interphase Power Controller. IEEE Transactions on Power Delivery, 2017, 32, 62-71.	2.9	33
138	Cleaning of Floating Photovoltaic Systems: A Critical Review on Approaches from Technical and Economic Perspectives. Energies, 2021, 14, 2018.	1.6	33
139	Elimination of Harmonics in a Multi-Level Inverter with Unequal DC Sources Using the Homotopy Algorithm. , 2007, , .		32
140	Online monitoring of transformer winding axial displacement and its extent using scattering parameters and k-nearest neighbour method. IET Generation, Transmission and Distribution, 2011, 5, 824.	1.4	32
141	Coordinated Load Shedding Strategy to Restore Voltage and Frequency of Microgrid to Secure Region. IEEE Transactions on Smart Grid, 2019, 10, 4360-4368.	6.2	32
142	Robust Sliding Mode and Mixed H_2/H_∞ Output Feedback Primary Control of AC Microgrids. IEEE Systems Journal, 2021, 15, 2420-2431.	2.9	32
143	Highly sensitive microgrid protection using overcurrent relays with a novel relay characteristic. IET Renewable Power Generation, 2020, 14, 1201-1209.	1.7	32
144	A Three-Phase Dimmable Lighting System Using a Bidirectional Power Electronic Transformer. IEEE Transactions on Power Electronics, 2009, 24, 830-837.	5.4	31

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145	Ferroresonance suppression in power transformers using chaos theory. International Journal of Electrical Power and Energy Systems, 2013, 45, 1-9.	3.3	31
146	Novel high performance DC reactor type fault current limiter. Electric Power Systems Research, 2015, 122, 198-207.	2.1	31
147	Allocation of Centralized Energy Storage System and Its Effect on Daily Grid Energy Generation Cost. IEEE Transactions on Power Systems, 2017, 32, 2406-2416.	4.6	31
148	A New Power Management Scheme for Parallel-Connected PV Systems in Microgrids. IEEE Transactions on Sustainable Energy, 2018, 9, 1605-1617.	5.9	31
149	A Novel Measurement-Based Dynamic Equivalent Model of Grid-Connected Microgrids. IEEE Transactions on Industrial Informatics, 2019, 15, 2032-2043.	7.2	31
150	Resiliency/Cost-Based Optimal Design of Distribution Network to Maintain Power System Stability Against Physical Attacks: A Practical Study Case. IEEE Access, 2021, 9, 43862-43875.	2.6	31
151	Power System Security Improvement by Using Differential Evolution Algorithm Based FACTS Allocation. , 2008, , .		30
152	Probabilistic multi-objective HVDC/AC transmission expansion planning considering distant wind/solar farms. IET Science, Measurement and Technology, 2016, 10, 140-149.	0.9	30
153	Blockchain, a Sustainable Solution for Cybersecurity Using Cryptocurrency for Financial Transactions in Smart Grids. , 2019, , .		30
154	Turn-to-Turn Short Circuit Fault Localization in Transformer Winding via Image Processing and Deep Learning Method. IEEE Transactions on Industrial Informatics, 2022, 18, 4417-4426.	7.2	30
155	Comparison of OMTHD and OHSW harmonic optimization techniques in multi-level voltage-source inverter with non-equal DC sources. , 2007, , .		29
156	Harmonic optimization in multi-level inverters using harmony search algorithm. , 2008, , .		29
157	Overview of subsynchronous resonance analysis and control in wind turbines. Renewable and Sustainable Energy Reviews, 2013, 27, 234-243.	8.2	29
158	Energy Storage Systems. , 2017, , 333-368.		29
159	Determination of axial displacement extent based on transformer winding transfer function estimation using vector-fitting method. European Transactions on Electrical Power, 2008, 18, 423-436.	1.0	28
160	Game-theoretic approach to cooperative control of distributed energy resources in islanded microgrid considering voltage and frequency stability. Neural Computing and Applications, 2014, 25, 343-351.	3.2	28
161	Accurate SFS Parameter Design Criterion for Inverter-Based Distributed Generation. IEEE Transactions on Power Delivery, 2016, 31, 1050-1059.	2.9	28
162	Comprehensive coordination of combined directional overcurrent and distance relays considering miscoordination reduction. International Journal of Electrical Power and Energy Systems, 2017, 92, 42-52.	3.3	28

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163	Optimal Energy Scheduling for a Microgrid Encompassing DRRs and Energy Hub Paradigm Subject to Alleviate Emission and Operational Costs. , 2018, , .		28
164	Application of IoT in Smart Grid: Challenges and Solutions. , 2019, , .		28
165	Dual feasible direction-finding nonlinear programming combined with metaheuristic approaches for exact overcurrent relay coordination. International Journal of Electrical Power and Energy Systems, 2020, 114, 105420.	3.3	28
166	Resilient cooperative control of AC microgrids considering relative stateâ€dependent noises and communication timeâ€delays. IET Renewable Power Generation, 2020, 14, 1321-1331.	1.7	28
167	Inter-line dynamic voltage restorer control using a novel optimum energy consumption strategy. Simulation Modelling Practice and Theory, 2006, 14, 989-999.	2.2	27
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