

# Gevork B. Gharehpetian

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

583  
papers

10,351  
citations

51  
h-index

75  
g-index

700  
ext. papers

13,305  
ext. citations

4.1  
avg, IF

7.27  
L-index

#	Paper	IF	Citations
583	Identification and classification of cross-country faults in transformers using K-NN and tree-based classifiers. <i>Electric Power Systems Research</i> , <b>2022</b> , 204, 107690	3.5	1
582	Comprehensive review on the strategies for controlling the interconnection of AC and DC microgrids. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2022</b> , 136, 107742	5.1	6
581	A Bootstrapping Solution for Effective Interpretation of Transformer Winding Frequency Response. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2022</b> , 71, 1-11	5.2	2
580	Generalized regression neural network application for fault type detection in distribution transformer windings considering statistical indices. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , <b>2022</b> , 41, 381-409	0.7	3
579	Comprehensive comparative analysis of Metal-Oxide nanoadditives impacts on Oil-Filled Finemet and Vitroperm alloy core transformers HST concerning nanofluid thermophysical properties accurate estimation. <i>Energy Conversion and Management</i> , <b>2022</b> , 260, 115594	10.6	0
578	Decentralized power exchange control methods among subsystems in future power network <b>2022</b> , 345-367		
577	Bi-Level Decomposition Approach for Coordinated Planning of an Energy Hub With Gas-Electricity Integrated Systems. <i>IEEE Systems Journal</i> , <b>2021</b> , 1-11	4.3	2
576	A Deep Learning-Based Approach for Generation Expansion Planning Considering Power Plants Lifetime. <i>Energies</i> , <b>2021</b> , 14, 8035	3.1	3
575	Performance Improvement of Transformer Differential Protection during Cross-Country Fault using Hyperbolic S-Transform. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 1-1	5.2	1
574	Fault-Tolerant, Distributed Control for Emerging, VSC-Based, Islanded Microgrids An Approach Based on Simultaneous Passive Fault Detection. <i>IEEE Access</i> , <b>2021</b> , 1-1	3.5	1
573	Confidence Level Estimation for Advanced Decision-Making in Transformer Short-circuit Fault Diagnosis. <i>IEEE Transactions on Industry Applications</i> , <b>2021</b> , 1-1	4.3	2
572	Sensitivity Analysis of Different Components of Transfer Function for Detection and Classification of Type, Location and Extent of Transformer Faults. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2021</b> , 187, 110292	4.6	3
571	Cleaning of Floating Photovoltaic Systems: A Critical Review on Approaches from Technical and Economic Perspectives. <i>Energies</i> , <b>2021</b> , 14, 2018	3.1	9
570	An Enhanced Converter-based Diesel Generator Emulator for Voltage and Frequency Control Studies in Laboratory-Scale Microgrids. <i>Iranian Journal of Science and Technology - Transactions of Electrical Engineering</i> , <b>2021</b> , 45, 945-957	1.9	1
569	A novel approach for sizing thermal and electrical energy storage systems for energy management of islanded residential microgrid. <i>Energy and Buildings</i> , <b>2021</b> , 238, 110850	7	3
568	Design and Analysis of a High-Gain Step-Up/Down Modular DCDC Converter with Continuous Input Current and Decreased Voltage Stress on Power Switches and Switched-Capacitors. <i>Sustainability</i> , <b>2021</b> , 13, 5243	3.6	2
567	Novel double-circuit transmission line bridge-type fault current limiter to enhance wind power plants fault ride-through capability. <i>International Transactions on Electrical Energy Systems</i> , <b>2021</b> , 31, e12933	2.2	

566	Quasi-Luenberger Observer-Based Robust DC Link Control of UIPC for Flexible Power Exchange Control in Hybrid Microgrids. <i>IEEE Systems Journal</i> , <b>2021</b> , 15, 2845-2854	4.3	2
565	An improved 24-pulse rectifier for harmonic mitigation in more electric aircraft. <i>IET Power Electronics</i> , <b>2021</b> , 14, 2007-2020	2.2	2
564	Flatness-Based Decentralized Control of Bidirectional Interlink Power Converters in Grid-Connected Hybrid Microgrids Using Adaptive High-Gain PI-Observers. <i>IEEE Systems Journal</i> , <b>2021</b> , 15, 478-486	4.3	2
563	Resilient Synchronization of Voltage/Frequency in AC Microgrids Under Deception Attacks. <i>IEEE Systems Journal</i> , <b>2021</b> , 15, 2125-2136	4.3	19
562	A 20-Pulse Autotransformer Rectifier Unit for More Electric Aircrafts. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2021</b> , 9, 2992-2999	5.6	6
561	Eighteen-Step Inverter: A Low-Loss Three-Phase Inverter for Low-Cost Standalone Applications. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2021</b> , 9, 970-979	5.6	3
560	Enhanced Frequency Control Method for Microgrid-Connected Flywheel Energy Storage System. <i>IEEE Systems Journal</i> , <b>2021</b> , 15, 4503-4513	4.3	5
559	Detection of probability of occurrence, type and severity of faults in transformer using frequency response analysis based numerical indices. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2021</b> , 168, 108322	4.6	10
558	A New Diagnostic Technique for Reliable Decision-Making on Transformer FRA Data in Interturn Short-Circuit Condition. <i>IEEE Transactions on Industrial Informatics</i> , <b>2021</b> , 17, 3020-3031	11.9	8
557	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> , <b>2021</b> , 9, 376-383	4	13
556	A new generalized cascade multilevel converter topology and its improved modulation technique. <i>International Journal of Circuit Theory and Applications</i> , <b>2021</b> , 49, 1103-1120	2	5
555	Delivering Smooth Power to Pulse-Current Battery Chargers: Electric Vehicles as a Case in Point. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 1295-1302	7.2	5
554	Improving LVRT capability of microgrid by using bridge-type fault current limiter. <i>Electric Power Systems Research</i> , <b>2021</b> , 191, 106872	3.5	4
553	Robust Sliding Mode and Mixed $H_2/H_\infty$ Output Feedback Primary Control of AC Microgrids. <i>IEEE Systems Journal</i> , <b>2021</b> , 15, 2420-2431	4.3	16
552	A Family of Soft-Switching DCDC Converters With Two Degrees of Freedom. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 68, 9398-9409	8.9	1
551	Robust Distributed Disturbance-Resilient $H_\infty$ -Based Control of Off-Grid Microgrids With Uncertain Communications. <i>IEEE Systems Journal</i> , <b>2021</b> , 15, 2895-2905	4.3	4
550	OC/OL Protection of Droop-Controlled and Directly Voltage-Controlled Microgrids Using TMF/ANN-Based Fault Detection and Discrimination. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2021</b> , 9, 3254-3265	5.6	8
549	Power-flow analysis of microgrids <b>2021</b> , 59-127		

548	Robust Control Strategies for Microgrids: A Review. <i>IEEE Systems Journal</i> , <b>2021</b> , 1-12	4.3	13
547	Damping of Low-Frequency Oscillations in Power Systems by Large-Scale PV Farms: A Comprehensive Review of Control Methods. <i>IEEE Access</i> , <b>2021</b> , 9, 72183-72206	3.5	2
546	Microgrid control strategies <b>2021</b> , 7-58		2
545	Robust Cooperative Control of Isolated AC Microgrids Subject to Unreliable Communications: A Low-Gain Feedback Approach. <i>IEEE Systems Journal</i> , <b>2021</b> , 1-12	4.3	1
544	Strategic Bidding in Distribution Network Electricity Market Focusing on Competition Modeling and Uncertainties. <i>Journal of Modern Power Systems and Clean Energy</i> , <b>2021</b> , 9, 561-572	4	3
543	Microgrid protection <b>2021</b> , 191-248		
542	Optimal coordinated tuning of power system stabilizers and wide-area measurement-based fractional-order PID controller of large-scale PV farms for LFO damping in smart grids. <i>International Transactions on Electrical Energy Systems</i> , <b>2021</b> , 31, e12612	2.2	8
541	Fault analysis <b>2021</b> , 129-151		
540	Operation under unbalanced conditions <b>2021</b> , 153-189		
539	A Novel More Electric Aircraft Power System Rectifier Based on a Low-Rating Autotransformer. <i>IEEE Transactions on Transportation Electrification</i> , <b>2021</b> , 1-1	7.6	1
538	Bi-level power management strategy in harmonic-polluted active distribution network including virtual power plants. <i>IET Renewable Power Generation</i> , <b>2021</b> , 15, 462-476	2.9	2
537	Harmonic distortion reduction of commercial airplane electrical power system using fuzzy logic based current control of active power filter. <i>International Transactions on Electrical Energy Systems</i> , <b>2021</b> , 31, e12811	2.2	0
536	Optimal scheduling of HVACs in islanded residential microgrids to reduce BESS size considering effect of discharge duration on voltage and capacity of battery cells. <i>Sustainable Energy, Grids and Networks</i> , <b>2021</b> , 25, 100424	3.6	4
535	A comprehensive investigation on the efficiency of alumina nanoparticles in ONAN and OFAN cooling performance enhancement of transformers. <i>Powder Technology</i> , <b>2021</b> , 387, 466-480	5.2	2
534	Robust Analog DC Isolator for Cathodic Protection Applications. <i>Journal of Pipeline Systems Engineering and Practice</i> , <b>2021</b> , 12, 04021035	1.5	0
533	Evaluating the Effect of Demand Response Programs (DRPs) on Robust Optimal Sizing of Islanded Microgrids. <i>Energies</i> , <b>2021</b> , 14, 5750	3.1	2
532	Important Technical Considerations in Design of Battery Chargers of Electric Vehicles. <i>Energies</i> , <b>2021</b> , 14, 5878	3.1	3
531	Integrated Modeling of Power Network and Connected Flywheel Energy Storage System for Optimal Power and Energy Ratings of Flywheel. <i>IEEE Transactions on Energy Conversion</i> , <b>2021</b> , 36, 1589-1599	5.4	4

530	A Survey on FOPID Controllers for LFO Damping in Power Systems Using Synchronous Generators, FACTS Devices and Inverter-Based Power Plants. <i>Energies</i> , <b>2021</b> , 14, 5983	3.1	3
529	A new control method for distortions compensation and power control using microgrid connecting voltage source converters. <i>Sustainable Energy Technologies and Assessments</i> , <b>2021</b> , 47, 101373	4.7	1
528	Fault location determination in three-terminal transmission lines connected to industrial microgrids without requiring fault classification data and independent of line parameters. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2021</b> , 131, 107044	5.1	4
527	Mineral oil based CuO nanofluid-immersed transformers analysis concerning the efficacy of nanocrystalline alloy core in reduction of losses and HST. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2021</b> , 537, 168184	2.8	5
526	HVDC Circuit Breakers: A Comprehensive Review. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 13726-13739	13.73	1
525	. <i>IEEE Access</i> , <b>2021</b> , 9, 43862-43875	3.5	14
524	Pulse Tripling Circuit and Twelve Pulse Rectifier Combination for Sinusoidal Input Current. <i>IEEE Access</i> , <b>2021</b> , 9, 103588-103599	3.5	4
523	Optimal sizing of microgrids <b>2021</b> , 249-312		0
522	. <i>IEEE Access</i> , <b>2021</b> , 9, 94953-94969	3.5	1
521	Turn-to-Turn Short Circuit Fault Localization in Transformer Winding via Image Processing and Deep Learning Method. <i>IEEE Transactions on Industrial Informatics</i> , <b>2021</b> , 1-1	11.9	5
520	New Representation of Power Injection Model of IDC-PFC within NR-based MT-HVDC Grids Power Flow Studies <b>2020</b> ,		2
519	Information Gap Decision Theory-Based Active Distribution System Planning for Resilience Enhancement. <i>IEEE Transactions on Smart Grid</i> , <b>2020</b> , 11, 4390-4402	10.7	18
518	Resilient H <sub>∞</sub> Consensus-Based Control of Autonomous AC Microgrids With Uncertain Time-Delayed Communications. <i>IEEE Transactions on Smart Grid</i> , <b>2020</b> , 11, 3871-3884	10.7	25
517	A novel energy-reliability market framework for participation of microgrids in transactive energy system. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2020</b> , 122, 106193	5.1	5
516	Real-time simulator and offline/online closed-loop test bed for power system modeling and development. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2020</b> , 122, 106203	5.1	6
515	A Novel and Optimal Battery Sizing Procedure Based on MG Frequency Security Criterion Using Coordinated Application of BESS, LED Lighting Loads, and Photovoltaic Systems. <i>IEEE Access</i> , <b>2020</b> , 8, 95345-95359	3.5	11
514	Chance-constrained models for transactive energy management of interconnected microgrid clusters. <i>Journal of Cleaner Production</i> , <b>2020</b> , 271, 122177	10.3	39
513	Design and implementation of dielectric windows for detection of radial deformation of HV transformer winding using radar imaging. <i>IET Science, Measurement and Technology</i> , <b>2020</b> , 14, 478-485	1.5	3

512	Two designs for DCDC stage of electric vehicle charging stations. <i>Electrical Engineering</i> , <b>2020</b> , 102, 2389-2399	2.3	9
511	Resilient cooperative control of AC microgrids considering relative state-dependent noises and communication time-delays. <i>IET Renewable Power Generation</i> , <b>2020</b> , 14, 1321-1331	2.9	18
510	Simultaneous radial deformation and partial discharge detection of high-voltage winding of power transformer. <i>IET Electric Power Applications</i> , <b>2020</b> , 14, 383-390	1.8	9
509	Optimal fractional-order PID controller of inverter-based power plants for power systems LFO damping. <i>Turkish Journal of Electrical Engineering and Computer Sciences</i> , <b>2020</b> , 28, 485-499	0.9	3
508	Partial Discharge Localization Using Time Reversal: Application to Power Transformers. <i>Sensors</i> , <b>2020</b> , 20,	3.8	21
507	Optimal PID controller of large-scale PV farms for power systems LFO damping. <i>International Transactions on Electrical Energy Systems</i> , <b>2020</b> , 30, e12372	2.2	11
506	Generalised representation of multi-terminal VSC-HVDC systems for ACDC power flow studies. <i>IET Energy Systems Integration</i> , <b>2020</b> , 2, 50-58	3.3	7
505	Inductive fault current limiters: A review. <i>Electric Power Systems Research</i> , <b>2020</b> , 187, 106499	3.5	13
504	Sliding Mode Controller-Based BFCL for Fault Ride-Through Performance Enhancement of DFIG-Based Wind Turbines. <i>Complexity</i> , <b>2020</b> , 2020, 1-12	1.6	20
503	Highly reliable overcurrent protection scheme for highly meshed power systems. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2020</b> , 119, 105874	5.1	7
502	Distributed Fault-Tolerant Voltage/Frequency Synchronization in Autonomous AC Microgrids. <i>IEEE Transactions on Power Systems</i> , <b>2020</b> , 35, 3774-3789	7	24
501	A Droop-Based Diesel Generator Emulator for Microgrid Frequency Control Studies. <i>Iranian Journal of Science and Technology - Transactions of Electrical Engineering</i> , <b>2020</b> , 44, 1281-1291	1.9	2
500	New family of expandable step-up/-down DC-DC converters with increased voltage gain and decreased voltage stress on capacitors. <i>International Transactions on Electrical Energy Systems</i> , <b>2020</b> , 30, e12252	2.2	9
499	Replacement of natural gas with electricity to improve seismic service resilience: An application to domestic energy utilities in Iran. <i>Energy</i> , <b>2020</b> , 200, 117509	7.9	2
498	<b>2020</b> ,		1
497	Smart V2G/G2V Charging Strategy for PHEVs in AC Microgrids Based on Maximizing Battery Lifetime and RER/DER Employment. <i>IEEE Systems Journal</i> , <b>2020</b> , 1-11	4.3	4
496	Resilient distributed control of BESSs and voltage source converter-based microgrids considering switching topologies and non-uniform time-varying delays. <i>IET Generation, Transmission and Distribution</i> , <b>2020</b> , 14, 5060-5071	2.5	2
495	Blockchain outlook for deployment of IoT in distribution networks and smart homes. <i>International Journal of Electrical and Computer Engineering</i> , <b>2020</b> , 10, 2787	1.4	9

494	Distributed LMI-based control of heterogeneous microgrids considering fixed time-delays and switching topologies. <i>IET Renewable Power Generation</i> , <b>2020</b> , 14, 2068-2078	2.9	11
493	Role of Joint 5G-IoT Framework for Smart Grid Interoperability Enhancement <b>2020</b> ,		1
492	Multi-resistor BFCL for FRT capability improvement of DFIG-based wind farm. <i>IET Energy Systems Integration</i> , <b>2020</b> , 2, 316-324	3.3	9
491	New DTR line selection method in a power system comprising DTR, ESS, and RES for increasing RES integration and minimising load shedding. <i>IET Generation, Transmission and Distribution</i> , <b>2020</b> , 14, 6319-6329	2.5	5
490	Highly sensitive microgrid protection using overcurrent relays with a novel relay characteristic. <i>IET Renewable Power Generation</i> , <b>2020</b> , 14, 1201-1209	2.9	14
489	Recovery of Partial Discharge Signal and Noise Cancellation in Power Transformer Using Radial Basis Function. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2020</b> , 69, 3388-3394	5.2	2
488	Cooperative Fault-Tolerant Control of Microgrids Under Switching Communication Topology. <i>IEEE Transactions on Smart Grid</i> , <b>2020</b> , 11, 1866-1879	10.7	34
487	A multi-objective voltage stability constrained energy management system for isolated microgrids. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2020</b> , 117, 105646	5.1	19
486	A survey on fault current limiters: Development and technical aspects. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2020</b> , 118, 105729	5.1	40
485	A review on intentional controlled islanding in smart power systems and generalized framework for ICI in microgrids. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2020</b> , 118, 105709	5.1	10
484	Inrush current modeling of three-limb core-type power transformers based on efficient analytical-numerical hybrid method. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2020</b> , 117, 105694	5.1	2
483	Application of multi-step bridge-type fault current limiter for fault ride-through capability enhancement of permanent magnet synchronous generator-based wind turbines. <i>International Transactions on Electrical Energy Systems</i> , <b>2020</b> , 30, e12611	2.2	13
482	New approach for sizing of overloaded-capable battery for Microgrid frequency control using cooperation of PVs, BESS and smart lighting loads. <i>Journal of Intelligent and Fuzzy Systems</i> , <b>2020</b> , 39, 4095-4109	1.6	1
481	Power Management of Microgrids Including PHEVs Based on Maximum Employment of Renewable Energy Resources. <i>IEEE Transactions on Industry Applications</i> , <b>2020</b> , 56, 5299-5307	4.3	21
480	Sinusoidal-Ripple Current Control in Battery Charger of Electric Vehicles. <i>IEEE Transactions on Vehicular Technology</i> , <b>2020</b> , 69, 7201-7210	6.8	11
479	A Survey on Environmentally Friendly Vehicle Routing Problem and a Proposal of Its Classification. <i>Sustainability</i> , <b>2020</b> , 12, 9079	3.6	11
478	BESS Sizing in an Isolated Microgrid Including PHEVs and RERs <b>2020</b> ,		1
477	A New Transformer FRA Test Setup for Advanced Interpretation and Winding Short-circuit Prediction <b>2020</b> ,		1

476	An Improved PSO-GA based Fuzzy Controller of STATCOM for Cascaded Induction Motors of Drilling System <b>2020</b> ,		1
475	Partial Discharge Localization Using Electromagnetic Time Reversal: A Performance Analysis. <i>IEEE Access</i> , <b>2020</b> , 8, 147507-147515	3.5	15
474	Robust Hierarchical Control of VSC-based Off-grid AC Microgrids to Enhancing Stability and FRT Capability Considering Time-Varying Delays. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2020</b> , 1-1	5.6	6
473	Feasibility Study on Simultaneous Detection of Partial Discharge and Axial Displacement of HV Transformer Winding Using Electromagnetic Waves. <i>IEEE Transactions on Industrial Informatics</i> , <b>2020</b> , 16, 67-76	11.9	17
472	A Novel Control Method Based on Droop for Cooperation of Flywheel and Battery Energy Storage Systems in Islanded Microgrids. <i>IEEE Systems Journal</i> , <b>2020</b> , 14, 1080-1087	4.3	9
471	Highly Accurate Directional Overcurrent Coordination via Combination of Rosen@ Gradient Projection@ Complex Method With GA-PSO Algorithm. <i>IEEE Systems Journal</i> , <b>2020</b> , 14, 1171-1182	4.3	13
470	Dual feasible direction-finding nonlinear programming combined with metaheuristic approaches for exact overcurrent relay coordination. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2020</b> , 114, 105420	5.1	12
469	Robust Nonlinear State Feedback Control of Bidirectional Interlink Power Converters in Grid-Connected Hybrid Microgrids. <i>IEEE Systems Journal</i> , <b>2020</b> , 14, 1117-1124	4.3	8
468	A Charging Strategy for PHEVs Based on Maximum Employment of Renewable Energy Resources in Microgrid <b>2019</b> ,		7
467	Small signal equivalent model of synchronous generator-based grid-connected microgrid using improved Heffron-Phillips model. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2019</b> , 108, 263-270	5.1	11
466	Internet of Energy (IoE) in Smart Power Systems <b>2019</b> ,		18
465	MILP model for integrated expansion planning of multi-carrier active energy systems. <i>IET Generation, Transmission and Distribution</i> , <b>2019</b> , 13, 1177-1189	2.5	15
464	A review on floating photovoltaic (FPV) power generation units. <i>Renewable and Sustainable Energy Reviews</i> , <b>2019</b> , 110, 332-347	16.2	63
463	A New Wireless Power Transfer Topology based on Quasi-Z-Source and LLC Resonant Network with Low Input Current THD <b>2019</b> ,		3
462	Optimal sizing and techno-economic analysis of energy- and cost-efficient standalone multi-carrier microgrid. <i>Energy</i> , <b>2019</b> , 178, 751-764	7.9	45
461	Techno-economic assessment of hybrid renewable resources for a residential building in tehran. <i>Environmental Progress and Sustainable Energy</i> , <b>2019</b> , 38, 13209	2.5	19
460	A New Transformer FRA Measurement Technique to Reach Smart Interpretation for Inter-Disk Faults. <i>IEEE Transactions on Power Delivery</i> , <b>2019</b> , 34, 1508-1519	4.3	26
459	Short-term interaction between electric vehicles and microgrid in decentralized vehicle-to-grid control methods. <i>Protection and Control of Modern Power Systems</i> , <b>2019</b> , 4,	6.7	26



458	Cost-effective multi-pulse AC-DC converter with lower than 3% current THD. <i>International Journal of Circuit Theory and Applications</i> , <b>2019</b> , 47, 1105-1120	2	9
457	Smart participation of PHEVs in controlling voltage and frequency of island microgrids. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2019</b> , 110, 510-522	5.1	12
456	Power Flow Control of Interconnected ACDC Microgrids in Grid-Connected Hybrid Microgrids Using Modified UIPC. <i>IEEE Transactions on Smart Grid</i> , <b>2019</b> , 10, 6298-6307	10.7	22
455	Robust Short-Term Scheduling of Integrated Heat and Power Microgrids. <i>IEEE Systems Journal</i> , <b>2019</b> , 13, 3295-3303	4.3	63
454	A Hierarchical Regionalization-Based Load Shedding Plan to Recover Frequency and Voltage in Microgrid. <i>IEEE Transactions on Smart Grid</i> , <b>2019</b> , 10, 3818-3827	10.7	11
453	Reliability evaluation of a fault-tolerant three-phase interleaved DC-DC boost converter. <i>Transactions of the Institute of Measurement and Control</i> , <b>2019</b> , 41, 1278-1289	1.8	10
452	Coordinated Load Shedding Strategy to Restore Voltage and Frequency of Microgrid to Secure Region. <i>IEEE Transactions on Smart Grid</i> , <b>2019</b> , 10, 4360-4368	10.7	18
451	A Novel Measurement-Based Dynamic Equivalent Model of Grid-Connected Microgrids. <i>IEEE Transactions on Industrial Informatics</i> , <b>2019</b> , 15, 2032-2043	11.9	10
450	LVRT improvement and transient stability enhancement of power systems based on renewable energy resources using the coordination of SSSC and PSSs controllers. <i>IET Renewable Power Generation</i> , <b>2019</b> , 13, 1849-1860	2.9	12
449	Optimal Switching Algorithm for Different Topologies of 15-Level Inverter Using Genetic Algorithm <b>2019</b> ,		3
448	Decentralised primary and secondary control strategies for islanded microgrids considering energy storage systems characteristics. <i>IET Generation, Transmission and Distribution</i> , <b>2019</b> , 13, 2986-2992	2.5	3
447	<b>2019</b> ,		3
446	Determination of transformer HV winding axial displacement extent using hyperbolic method feasibility study. <i>IET Electric Power Applications</i> , <b>2019</b> , 13, 1004-1013	1.8	4
445	New family of non-isolated step-up/down and step-up switched-capacitor-based DCDC converters. <i>IET Power Electronics</i> , <b>2019</b> , 12, 1706-1720	2.2	24
444	A Novel Accurate Power Sharing Method Versus Droop Control In Autonomous Microgrids With Critical Loads. <i>IEEE Access</i> , <b>2019</b> , 7, 89466-89474	3.5	9
443	A zero-current switching switched-capacitor DC-DC converter with reduction in cost, complexity, and size. <i>International Journal of Circuit Theory and Applications</i> , <b>2019</b> , 47, 1630-1644	2	6
442	Power consumption control of LEDs considering their specific characteristics and ambient temperature variations. <i>Computers and Electrical Engineering</i> , <b>2019</b> , 77, 191-204	4.3	1
441	Effect of Smart Multiple Hub Planning on Distribution Networks Integrated Expansion <b>2019</b> ,		1

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438	IoT Architecture for Smart Grids <b>2019</b> ,		30
437	Damping of low-frequency oscillation in power systems using hybrid renewable energy power plants. <i>Turkish Journal of Electrical Engineering and Computer Sciences</i> , <b>2019</b> , 27, 3852-3867	0.9	2
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434	Modeling and Analysis of a Renewable-energy-powered Greenhouse <b>2019</b> ,		1
433	Attributes of Big Data Analytics for Data-Driven Decision Making in Cyber-Physical Power Systems <b>2019</b> ,		3
432	Scheduling of Distributed Energy Resources in Active Distribution Networks Considering Combination of Techno-Economic and Environmental Objectives <b>2019</b> ,		6
431	Application of IoT in Smart Grid: Challenges and Solutions <b>2019</b> ,		4
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427	Electromagnetic transients modelling of split-winding traction transformers for frequency response analysis. <i>IET Science, Measurement and Technology</i> , <b>2019</b> , 13, 1362-1371	1.5	2
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425	Improved hyper-spherical search algorithm for voltage total harmonic distortion minimization in 27-level inverter. <i>Journal of Central South University</i> , <b>2019</b> , 26, 2822-2832	2.1	2
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4 <sup>16</sup>	A developed single-phase cascaded multilevel inverter with reduced number of circuit devices. <i>International Journal of Ambient Energy</i> , <b>2019</b> , 40, 254-262	2	3
4 <sup>15</sup>	Constant power control of variable speed wind farm for primary frequency control support. <i>Energy Systems</i> , <b>2019</b> , 10, 163-183	1.7	2
4 <sup>14</sup>	. <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 1-1	8.9	10
4 <sup>13</sup>	LVRT Performance Enhancement of DFIG-Based Wind Farms by Capacitive Bridge-Type Fault Current Limiter. <i>IEEE Transactions on Sustainable Energy</i> , <b>2018</b> , 9, 1118-1125	8.2	56
4 <sup>12</sup>	Optimal distribution systems reconfiguration for short circuit level reduction using PSO algorithm <b>2018</b> ,		7
4 <sup>11</sup>	Protection coordination of directional overcurrent relays: new time current characteristic and objective function. <i>IET Generation, Transmission and Distribution</i> , <b>2018</b> , 12, 190-199	2.5	27
4 <sup>10</sup>	A New Power Management Scheme for Parallel-Connected PV Systems in Microgrids. <i>IEEE Transactions on Sustainable Energy</i> , <b>2018</b> , 9, 1605-1617	8.2	21
4 <sup>09</sup>	Equivalent model parameter estimation of grid-connected fuel cell-based microgrid. <i>International Transactions on Electrical Energy Systems</i> , <b>2018</b> , 28, e2540	2.2	6
4 <sup>08</sup>	Decentralized Sliding Mode Control of WG/PV/FC Microgrids Under Unbalanced and Nonlinear Load Conditions for On- and Off-Grid Modes. <i>IEEE Systems Journal</i> , <b>2018</b> , 12, 3108-3119	4.3	75
4 <sup>07</sup>	Determination and localisation of turn-to-turn fault in transformer winding using frequency response analysis. <i>IET Science, Measurement and Technology</i> , <b>2018</b> , 12, 291-300	1.5	22
4 <sup>06</sup>	A New Partial Discharge Signal Denoising Algorithm Based on Adaptive Dual-Tree Complex Wavelet Transform. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2018</b> , 67, 2262-2272	5.2	35
4 <sup>05</sup>	Cost-based optimal siting and sizing of electric vehicle charging stations considering demand response programmes. <i>IET Generation, Transmission and Distribution</i> , <b>2018</b> , 12, 1712-1720	2.5	39

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403	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. <i>IET Generation, Transmission and Distribution</i> , <b>2018</b> , 12, 1518-1530	2.5	58
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379	Multi-Objective Scheduling of CHP-Based Microgrids with Cooperation of Thermal and Electrical Storage Units in Restructured Environment <b>2018</b> ,		1
378	Design and Implementation of a Simple Diesel Generator Emulator for Frequency Analysis of Laboratory-Scale Microgrids <b>2018</b> ,		2
377	A Novel High Efficiency Interleaved Flyback Inverter for Smart Home Applications <b>2018</b> ,		1
376	A Generalized Representation of VSC-HVDC Based AC/DC Microgrids for Power Flow Studies <b>2018</b> ,		1
375	Green Power Island, a Blue Battery Concept for Energy Management of High Penetration of Renewable Energy Sources with Techno-Economic and Environmental Considerations <b>2018</b> ,		2
374	Optimal Energy Dispatch of Smart Home Equipped with PV, WT, and ESS Using Load Control under RTP <b>2018</b> ,		1
373	Determination of transformer HV winding axial displacement occurrence, direction, and extent using time-domain analysis of UWB signals. <i>IET Science, Measurement and Technology</i> , <b>2018</b> , 12, 514-520 <sup>1.5</sup>		4
372	Real-Time Implementation of Asynchronous Machine using LabVIEW RTX and FPGA Module <b>2018</b> ,		3
371	Reduction of Output Power Pulsations for Electric Vehicles by Changing Distances between Transmitter Coils <b>2018</b> ,		5
370	RTISim: A New Real-Time Isolated Simulator for Turbine-Governor System of Industrial Power Plants <b>2018</b> ,		6
369	Improvement of Sensitivity-Based Nonlinear Solver for Bidding Strategy Problem of Electricity Markets <b>2018</b> ,		1

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310	A modified transformer-type fault current limiter for enhancement fault ride-through capability of fixed speed-based wind power plants <b>2017</b> ,		4
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308	Optimal placement and sizing of DGs considering static voltage stability <b>2017</b> ,		5
307	Demand response of islanded residential critical loads considering PV generation uncertainty and storage capacity <b>2017</b> ,		1
306	Unit commitment in smart grids with wind farms using virus colony search algorithm and considering adopted bidding strategy <b>2017</b> ,		5
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281	Inclusive Design and Implementation of Novel 40-Pulse ACDC Converter for Retrofit Applications and Harmonic Mitigation. <i>IEEE Transactions on Industrial Electronics</i> , <b>2016</b> , 63, 667-677	8.9	34
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272	Optimal sizing and energy management of a grid-connected microgrid using HOMER software <b>2016</b> ,		16
271	Optimal resource planning of smart home energy system under dynamic pricing based on invasive weed optimization algorithm <b>2016</b> ,		5
270	A fractional order proportional-integral controller design to improve load sharing between DGs in microgrid <b>2016</b> ,		3
269	Fuzzy logic controller vs. PI controller for MPPT of three-phase grid-connected PV system considering different irradiation conditions. <i>Journal of Intelligent and Fuzzy Systems</i> , <b>2016</b> , 30, 1353-1366	1.6	7
268	A new control method for voltage harmonics compensation in islanded microgrid <b>2016</b> ,		1
267	<b>2016</b> ,		5
266	Determining optimal capacity of FESS using PSO to enhance stability of microgrid after islanding mode, considering investment costs <b>2016</b> ,		1
265	A critical review on soil ionisation modelling for grounding electrodes. <i>Archives of Electrical Engineering</i> , <b>2016</b> , 65, 449-461		12
264	Valuable tips for transformer ladder network parameters estimation <b>2016</b> ,		2
263	Online Decision Tree based strategy for power system static security margin improvement using wind farms. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2016</b> , 83, 15-20	5.1	3
262	A Novel Optimized Fuzzy Approach Based on Monte Carlo Method for System Load, Wind Turbine and Photovoltaic Unit Uncertainty Modeling in Unit Commitment. <i>Electric Power Components and Systems</i> , <b>2016</b> , 44, 833-842	1	8
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247	Application of Hyper-Spherical Search algorithm for optimal energy resources dispatch in residential microgrids. <i>Applied Soft Computing Journal</i> , <b>2015</b> , 37, 15-23	7.5	33
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234	Application of PHEVs in controlling voltage and frequency of autonomous microgrids <b>2015</b> ,		1
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178	Improving power sharing and reduction circulating current in parallel inverters of isolated microgrids <b>2013</b> ,		5
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119	A New Method for Islanding Detection of Inverter-Based Distributed Generation Using DC-Link Voltage Control. <i>IEEE Transactions on Power Delivery</i> , <b>2011</b> , 26, 1176-1186	4.3	56
118	Multiinput Direct DC/AC Converter With High-Frequency Link for Clean Power-Generation Systems. <i>IEEE Transactions on Power Electronics</i> , <b>2011</b> , 26, 1777-1789	7.2	43
117	Modelling and simulation of voltage source converter-based interphase power controller as fault-current limiter and power flow controller. <i>IET Generation, Transmission and Distribution</i> , <b>2011</b> , 5, 1132	2.5	8

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115	Online monitoring of transformer winding axial displacement and its extent using scattering parameters and k-nearest neighbour method. <i>IET Generation, Transmission and Distribution</i> , <b>2011</b> , 5, 824 <sup>2-5</sup>		25
114	Nonlinear multivariable modeling of solid oxide fuel cells using core vector regression. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 12538-12548	6.7	9
113	A novel parameter estimation method for metal oxide surge arrester models. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , <b>2011</b> , 36, 941-961	1	2
112	Comparision between two stand-alone PV configurations: Series PVs versus series VSCs <b>2011</b> ,		2
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110	Dynamic performance enhancement of microgrids by advanced sliding mode controller. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2011</b> , 33, 1-7	5.1	44
109	An approach to improve dynamic response of VSIs in off-grid Microgrids <b>2011</b> ,		1
108	A control method to enhance dynamic performance of parallel inverters in islanded microgrid <b>2011</b> ,		4
107	Feasibility studies on on-line monitoring of transformer winding mechanical damage using UWB sensors <b>2010</b> ,		2
106	On-line Small-signal Stability Assessment of Power Systems Using Ball Vector Machines. <i>Electric Power Components and Systems</i> , <b>2010</b> , 38, 1427-1445	1	4
105	Detection of transformer winding radial deformations by using UWB pulses and DWT <b>2010</b> ,		2
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103	Hybrid SFS and Q-f Islanding Detection Method for inverter-based DG <b>2010</b> ,		9
102	New method for estimating flying capacitor voltages in stacked multicell and flying capacitor multicell converters. <i>Journal of Zhejiang University: Science C</i> , <b>2010</b> , 11, 654-662		6
101	Allocation of UPFC in North West grid of Iran to increase power system security <b>2010</b> ,		4
100	Modelling of on-line monitoring of transformer winding radial deformation using UWB sensors <b>2010</b> ,		1
99	Flexible Power Electronic Transformer. <i>IEEE Transactions on Power Electronics</i> , <b>2010</b> , 25, 2159-2169	7.2	49

98	LMP calculation, considering network topology uncertainty <b>2010</b> ,			2
97	Distributed generation site and size allocation through a techno economical multi-objective Differential Evolution Algorithm <b>2010</b> ,			5
96	<b>2010</b> ,			6
95	Detection of transformer winding axial displacement using scattering parameter and ANN <b>2010</b> ,			2
94	One day ahead prediction of wind speed based on power and exponential <b>2010</b> ,			2
93	Optimized regulation of DC voltage in Interline Power Flow Controller (IPFC) using genetic algorithm <b>2010</b> ,			2
92	Simulation of on-line monitoring of transformer winding axial displacement <b>2010</b> ,			4
91	Antennas positioning for on-line monitoring of transformer winding radial deformation using UWB sensors <b>2010</b> ,			2
90	Development of modulation strategies for three-phase to two-phase matrix converters. <i>International Journal of Power Electronics</i> , <b>2010</b> , 2, 82	0.2		3
89	Double Flying Capacitor Multicell Converter Based on Modified Phase-Shifted Pulsewidth Modulation. <i>IEEE Transactions on Power Electronics</i> , <b>2010</b> , 25, 1517-1526	7.2		138
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87	Bi-directional power electronic transformer with maximum power-point tracking capability for induction heating applications. <i>IET Power Electronics</i> , <b>2010</b> , 3, 724	2.2		8
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66	A new nonlinear controller design using average state space model of the inverter-based Distributed Generation to mitigate power quality problems <b>2009</b> ,		4
65	A novel approach to VFTO analysis of power transformers including FVL based on Detailed Model <b>2009</b> ,		1
64	Flying capacitor multicell converter based dynamic voltage restorer <b>2009</b> ,		10
63	Bi-directional power electronic transformer based compact dynamic voltage restorer <b>2009</b> ,		6

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61	Reliability Considerations for Parallel Performance of Semiconductor Switches in High-Power Switching Power Supplies. <i>IEEE Transactions on Industrial Electronics</i> , <b>2009</b> , 56, 2133-2139	8.9	58
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53	Power control strategy of parallel inverter interfaced DG units <b>2008</b> ,		3
52	Reliability comparison of boost PFC converter in DCM and CCM operating modes <b>2008</b> ,		5
51	Effect of type and interconnection of DG units in the fault current level of distribution networks <b>2008</b> ,		12
50	Power System Security Improvement by Using Differential Evolution Algorithm Based FACTS Allocation <b>2008</b> ,		20
49	Problems associated with parallel performance of high current semiconductor switches and their remedy <b>2008</b> ,		2
48	Bi-directional power electronic transformer for induction heating systems. <i>Canadian Conference on Electrical and Computer Engineering</i> , <b>2008</b> ,		3
47	Application of voltage source converter in Interphase Power Controller for power flow control and fault limitation <b>2008</b> ,		1
46	DG allocation using an analytical method to minimize losses and to improve voltage security <b>2008</b> ,		9
45	Determination of mean and variance of LMP using probabilistic DCOPF and T-PEM <b>2008</b> ,		3

44	Dynamic operation of a photovoltaic system connected to distribution system <b>2008</b> ,		3
43	Comparison of Transformer Detailed Models for Fast and Very Fast Transient Studies. <i>IEEE Transactions on Power Delivery</i> , <b>2008</b> , 23, 733-741	4.3	68
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40	Effect of antenna position on on-line monitoring of transformer winding axial displacement using electromagnetic waves <b>2008</b> ,		2
39	Fault current reduction in distribution systems with distributed generation units by a new dual functional series compensator <b>2008</b> ,		12
38	A Novel Switching Algorithm to Balance Conduction Losses in Power Semiconductor Devices of Multi-level Cascade Inverters. <i>Electric Power Components and Systems</i> , <b>2008</b> , 36, 1253-1281	1	4
37	Reliability considerations for full-bridge DC-DC converter in fuel-cell applications <b>2008</b> ,		2
36	A new algorithm for localization of radial deformation and determination of deformation extent in transformer windings. <i>Electric Power Systems Research</i> , <b>2008</b> , 78, 1701-1711	3.5	27
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33	Determination of OD cooling system parameters based on thermal modeling of power transformer winding. <i>Simulation Modelling Practice and Theory</i> , <b>2008</b> , 16, 585-596	3.9	16
32	Application of particle swarm optimization for distribution feeder reconfiguration considering distributed generators. <i>Applied Mathematics and Computation</i> , <b>2008</b> , 201, 575-586	2.7	120
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30	Harmonic distortion minimization in multilevel converters for a wide range of modulation indexes <b>2007</b> ,		1
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28	Pattern classification of internal incipient faults during impulse tests using continuous wavelet analysis. <i>Electrical Engineering</i> , <b>2007</b> , 90, 79-85	1.5	1
27	Reduction of dc voltage sources and switches in asymmetrical multilevel converters using a novel topology. <i>Electric Power Systems Research</i> , <b>2007</b> , 77, 1073-1085	3.5	210



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25	Elimination of Harmonics in a Multi-Level Inverter with Unequal DC Sources Using the Homotopy Algorithm <b>2007</b> ,		21
24	An approach based on Particle Swarm Optimization for distribution feeder reconfiguration considering Distributed Generators <b>2007</b> ,		9
23	Control Systems for Independent Operation of Parallel DG Units in DC Distribution Systems <b>2006</b> ,		12
22	A New Switching Strategy for 3-Phase to 2-Phase Matrix Converters <b>2006</b> ,		2
21	Soft-Threshold Wavelet De-Noising Technique Application for a Single Arc Discharge Across a Static Gap <b>2006</b> ,		2
20	An Algorithm for Evaluating Inrush Current in Transformers Using Jiles-Atherton Theory of Ferromagnetic Hysteresis <b>2006</b> ,		2
19	A Frequency Domain Method for Instantaneous Determination of Reference Current in Shunt Active Filter <b>2006</b> ,		9
18	An Efficient Algorithm for Determining the Values of Elements of Interphase Power Controller as a Fault Limiter <b>2006</b> ,		4
17	A Suitable Control Strategy for Source Converters and a Novel Load- Generation Voltage Control Scheme for DC Voltage Determination in DC Distribution Systems <b>2006</b> ,		11
16	Novel and Simple Control Strategy for Fuel Cell Converters in DC Distribution Systems <b>2006</b> ,		4
15	An Experimental Investigation and Model Development of Arc Discharge during Impulse Test <b>2006</b> ,		8
14	Verification of a new energy control strategy for dynamic voltage restorer by simulation. <i>Simulation Modelling Practice and Theory</i> , <b>2006</b> , 14, 112-125	3.9	40
13	Modeling and control of C-UPFC for power system transient studies. <i>Simulation Modelling Practice and Theory</i> , <b>2006</b> , 14, 564-576	3.9	14
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9	Modeling of switching and conduction losses in three-phase SPWM VSC using switching function concept <b>2005</b> ,		4

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4	Multi-objective Optimization of Microgrid Frequency and Energy Storage Capacity. <i>Renewable Energy and Power Quality Journal</i> ,1036-1040		2
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