

Gevork B. Gharehpetian

List of Publications by Citations

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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	A New Multilevel Converter Topology With Reduced Number of Power Electronic Components. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 59, 655-667	8.9	280
582	Reduction of dc voltage sources and switches in asymmetrical multilevel converters using a novel topology. <i>Electric Power Systems Research</i> , 2007 , 77, 1073-1085	3.5	210
581	Reliability/cost-based multi-objective Pareto optimal design of stand-alone wind/PV/FC generation microgrid system. <i>Energy</i> , 2016 , 115, 1022-1041	7.9	206
580	Review of Flywheel Energy Storage Systems structures and applications in power systems and microgrids. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 69, 9-18	16.2	168
579	A New Topology of Cascaded Multilevel Converters With Reduced Number of Components for High-Voltage Applications. <i>IEEE Transactions on Power Electronics</i> , 2011 , 26, 3109-3118	7.2	147
578	Double Flying Capacitor Multicell Converter Based on Modified Phase-Shifted Pulsewidth Modulation. <i>IEEE Transactions on Power Electronics</i> , 2010 , 25, 1517-1526	7.2	138
577	A comprehensive method for optimal power management and design of hybrid RES-based autonomous energy systems. <i>Renewable and Sustainable Energy Reviews</i> , 2012 , 16, 1577-1587	16.2	127
576	A comprehensive review of heuristic optimization algorithms for optimal combined heat and power dispatch from economic and environmental perspectives. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 81, 2128-2143	16.2	123
575	Application of particle swarm optimization for distribution feeder reconfiguration considering distributed generators. <i>Applied Mathematics and Computation</i> , 2008 , 201, 575-586	2.7	120
574	Unit Commitment Problem Solution Using Shuffled Frog Leaping Algorithm. <i>IEEE Transactions on Power Systems</i> , 2011 , 26, 573-581	7	107
573	Review on Energy Storage Systems Control Methods in Microgrids. <i>International Journal of Electrical Power and Energy Systems</i> , 2019 , 107, 745-757	5.1	104
572	A generalized descriptor-system robust H _∞ control of autonomous microgrids to improve small and large signal stability considering communication delays and load nonlinearities. <i>International Journal of Electrical Power and Energy Systems</i> , 2017 , 92, 63-82	5.1	102
571	Optimal placement and sizing of DG (distributed generation) units in distribution networks by novel hybrid evolutionary algorithm. <i>Energy</i> , 2013 , 54, 129-138	7.9	102
570	Power Calculation Using RBF Neural Networks to Improve Power Sharing of Hierarchical Control Scheme in Multi-DER Microgrids. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2016 , 4, 1217-1225	5.6	99
569	Optimal allocation and sizing of DG units considering voltage stability, losses and load variations. <i>International Journal of Electrical Power and Energy Systems</i> , 2016 , 79, 42-52	5.1	99
568	Optimization of hybrid solar energy sources/wind turbine systems integrated to utility grids as microgrid (MG) under pool/bilateral/hybrid electricity market using PSO. <i>Solar Energy</i> , 2012 , 86, 112-125	6.8	99
567	. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 5403-5415	8.9	96

566	New Extendable Single-Stage Multi-input DCDC/AC Boost Converter. <i>IEEE Transactions on Power Electronics</i> , 2014 , 29, 775-788	7.2	90
565	An Optimal Dispatch Algorithm for Managing Residential Distributed Energy Resources. <i>IEEE Transactions on Smart Grid</i> , 2014 , 5, 2360-2367	10.7	89
564	Optimal Integration of Phasor Measurement Units in Power Systems Considering Conventional Measurements. <i>IEEE Transactions on Smart Grid</i> , 2013 , 4, 1113-1121	10.7	87
563	Improving Fault Ride-Through Capability of Fixed-Speed Wind Turbine by Using Bridge-Type Fault Current Limiter. <i>IEEE Transactions on Energy Conversion</i> , 2013 , 28, 361-369	5.4	84
562	Multi-objective optimal power management and sizing of a reliable wind/PV microgrid with hydrogen energy storage using MOPSO. <i>Journal of Intelligent and Fuzzy Systems</i> , 2017 , 32, 1753-1773	1.6	84
561	GA-based optimal sizing of microgrid and DG units under pool and hybrid electricity markets. <i>International Journal of Electrical Power and Energy Systems</i> , 2012 , 35, 83-92	5.1	84
560	Nonlinear Load Sharing and Voltage Compensation of Microgrids Based on Harmonic Power-Flow Calculations Using Radial Basis Function Neural Networks. <i>IEEE Systems Journal</i> , 2018 , 12, 2749-2759	4.3	83
559	. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 648-661	7.2	82
558	Multiple distributed generation units allocation in distribution network for loss reduction based on a combination of analytical and genetic algorithm methods. <i>IET Generation, Transmission and Distribution</i> , 2016 , 10, 66-72	2.5	77
557	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. <i>IET Power Electronics</i> , 2017 , 10, 313-328	2.2	77
556	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> , 2018 , 12, 3108-3119	4.3	75
555	New High Step-Up Multilevel Converter Topology With Self-Voltage Balancing Ability and Its Optimization Analysis. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 7060-7070	8.9	74
554	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. <i>Simulation Modelling Practice and Theory</i> , 2017 , 72, 51-68	3.9	74
553	Real-time verification of new controller to improve small/large-signal stability and fault ride-through capability of multi-DER microgrids. <i>IET Generation, Transmission and Distribution</i> , 2016 , 10, 3068-3084	2.5	70
552	Comparison of Transformer Detailed Models for Fast and Very Fast Transient Studies. <i>IEEE Transactions on Power Delivery</i> , 2008 , 23, 733-741	4.3	68
551	. <i>IEEE Transactions on Power Delivery</i> , 1998 , 13, 157-163	4.3	65
550	A review on floating photovoltaic (FPV) power generation units. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 110, 332-347	16.2	63
549	Robust Short-Term Scheduling of Integrated Heat and Power Microgrids. <i>IEEE Systems Journal</i> , 2019 , 13, 3295-3303	4.3	63

548	Short-term scheduling of hydro-based power plants considering application of heuristic algorithms: A comprehensive review. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 74, 116-129	16.2	62
547	Bridge-Type Solid-State Fault Current Limiter Based on AC/DC Reactor. <i>IEEE Transactions on Power Delivery</i> , 2016 , 31, 200-209	4.3	61
546	ANN and cross-correlation based features for discrimination between electrical and mechanical defects and their localization in transformer winding. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2014 , 21, 2374-2382	2.3	61
545	An Innovative Scheme of Symmetric Multilevel Voltage Source Inverter With Lower Number of Circuit Devices. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 6965-6973	8.9	61
544	MOPSO/FDMT-based Pareto-optimal solution for coordination of overcurrent relays in interconnected networks and multi-DER microgrids. <i>IET Generation, Transmission and Distribution</i> , 2018 , 12, 2871-2886	2.5	61
543	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. <i>IEEE Systems Journal</i> , 2018 , 12, 444-451	4.3	60
542	Combined heat and power economic dispatch problem solution by implementation of whale optimization method. <i>Neural Computing and Applications</i> , 2019 , 31, 421-436	4.8	59
541	Fuzzy unscented transform for uncertainty quantification of correlated wind/PV microgrids: possibilistic-probabilistic power flow based on RBFNNs. <i>IET Renewable Power Generation</i> , 2017 , 11, 867-877	2.9	58
540	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> , 2018 , 12, 1518-1530	2.5	58
539	Long term scheduling for optimal allocation and sizing of DG unit considering load variations and DG type. <i>International Journal of Electrical Power and Energy Systems</i> , 2014 , 54, 277-287	5.1	58
538	Reliability Considerations for Parallel Performance of Semiconductor Switches in High-Power Switching Power Supplies. <i>IEEE Transactions on Industrial Electronics</i> , 2009 , 56, 2133-2139	8.9	58
537	LVRT Performance Enhancement of DFIG-Based Wind Farms by Capacitive Bridge-Type Fault Current Limiter. <i>IEEE Transactions on Sustainable Energy</i> , 2018 , 9, 1118-1125	8.2	56
536	Optimization of distributed generation capacities in buildings under uncertainty in load demand. <i>Energy and Buildings</i> , 2013 , 57, 58-64	7	56
535	A New Method for Islanding Detection of Inverter-Based Distributed Generation Using DC-Link Voltage Control. <i>IEEE Transactions on Power Delivery</i> , 2011 , 26, 1176-1186	4.3	56
534	An investigation on combined operation of active power filter with photovoltaic arrays. <i>International Journal of Electrical Power and Energy Systems</i> , 2013 , 46, 392-399	5.1	52
533	A Decentralized Robust Mixed H_{∞}/H_{∞} Voltage Control Scheme to Improve Small/Large-Signal Stability and FRT Capability of Islanded Multi-DER Microgrid Considering Load Disturbances. <i>IEEE Systems Journal</i> , 2018 , 12, 2610-2621	4.3	51
532	A new current limiting strategy and fault model to improve fault ride-through capability of inverter interfaced DERs in autonomous microgrids. <i>Sustainable Energy Technologies and Assessments</i> , 2017 , 24, 71-81	4.7	50
531	Three-Phase HFL-DVR With Independently Controlled Phases. <i>IEEE Transactions on Power Electronics</i> , 2012 , 27, 1706-1718	7.2	49

530	Flexible Power Electronic Transformer. <i>IEEE Transactions on Power Electronics</i> , 2010 , 25, 2159-2169	7.2	49
529	Flexible Control of Power Flow in Multiterminal DC Grids Using DCDC Converter. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2016 , 4, 1135-1144	5.6	47
528	Application of Duffing Oscillators for Passive Islanding Detection of Inverter-Based Distributed Generation Units. <i>IEEE Transactions on Power Delivery</i> , 2012 , 27, 1973-1983	4.3	47
527	Security/cost-based optimal allocation of multi-type FACTS devices using multi-objective particle swarm optimization. <i>Simulation</i> , 2012 , 88, 999-1010	1.2	47
526	Case study: Simulation and optimization of photovoltaic-wind-battery hybrid energy system in Taleghan-Iran using homer software. <i>Journal of Renewable and Sustainable Energy</i> , 2012 , 4, 053111	2.5	47
525	Novel Calculation Method of Indices to Improve Classification of Transformer Winding Fault Type, Location, and Extent. <i>IEEE Transactions on Industrial Informatics</i> , 2017 , 13, 1531-1540	11.9	45
524	Optimal sizing and techno-economic analysis of energy- and cost-efficient standalone multi-carrier microgrid. <i>Energy</i> , 2019 , 178, 751-764	7.9	45
523	Introducing a Novel DC Power Flow Method With Reactive Power Considerations. <i>IEEE Transactions on Power Systems</i> , 2015 , 30, 3012-3023	7	45
522	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	2.5	45
521	Improved selective harmonic elimination pulse-width modulation strategy in multilevel inverters. <i>IET Power Electronics</i> , 2012 , 5, 1904-1911	2.2	45
520	Dynamic performance enhancement of microgrids by advanced sliding mode controller. <i>International Journal of Electrical Power and Energy Systems</i> , 2011 , 33, 1-7	5.1	44
519	Ladder Network Parameters Determination Considering Nondominant Resonances of the Transformer Winding. <i>IEEE Transactions on Power Delivery</i> , 2014 , 29, 108-117	4.3	43
518	Multiinput Direct DCAC Converter With High-Frequency Link for Clean Power-Generation Systems. <i>IEEE Transactions on Power Electronics</i> , 2011 , 26, 1777-1789	7.2	43
517	Optimal Overcurrent Relay Coordination in Interconnected Networks by Using Fuzzy-Based GA Method. <i>IEEE Transactions on Smart Grid</i> , 2018 , 9, 3091-3101	10.7	42
516	Classification and Discrimination Among Winding Mechanical Defects, Internal and External Electrical Faults, and Inrush Current of Transformer. <i>IEEE Transactions on Industrial Informatics</i> , 2018 , 14, 484-493	11.9	40
515	Verification of a new energy control strategy for dynamic voltage restorer by simulation. <i>Simulation Modelling Practice and Theory</i> , 2006 , 14, 112-125	3.9	40
514	A survey on fault current limiters: Development and technical aspects. <i>International Journal of Electrical Power and Energy Systems</i> , 2020 , 118, 105729	5.1	40
513	Chance-constrained models for transactive energy management of interconnected microgrid clusters. <i>Journal of Cleaner Production</i> , 2020 , 271, 122177	10.3	39

512	Cost-based optimal siting and sizing of electric vehicle charging stations considering demand response programmes. <i>IET Generation, Transmission and Distribution</i> , 2018 , 12, 1712-1720	2.5	39
511	Multi-terminal HVDC grids with inertia mimicry capability. <i>IET Renewable Power Generation</i> , 2016 , 10, 752-760	2.9	39
510	Optimal Scheduling of Residential Energy System Including Combined Heat and Power System and Storage Device. <i>Electric Power Components and Systems</i> , 2013 , 41, 765-781	1	39
509	. <i>IEEE Transactions on Smart Grid</i> , 2016 , 7, 1230-1238	10.7	38
508	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	5.1	38
507	Novel Islanding Detection Method for Multiple DGs Based on Forced Helmholtz Oscillator. <i>IEEE Transactions on Smart Grid</i> , 2018 , 9, 6448-6460	10.7	37
506	Anti-Islanding Scheme for Synchronous DG Units Based on Tufts-Kumaresan Signal Estimation Method. <i>IEEE Transactions on Power Delivery</i> , 2013 , 28, 2185-2193	4.3	37
505	Power System Stability Analysis Using Feedback Control System Modeling Including HVDC Transmission Links. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 116-124	7	36
504	Output power smoothing of variable speed wind farms using rotor-inertia. <i>Electric Power Systems Research</i> , 2014 , 116, 208-217	3.5	36
503	Robust optimization of distributed generation investment in buildings. <i>Energy</i> , 2012 , 48, 455-463	7.9	36
502	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	4.3	35
501	. <i>IEEE Transactions on Smart Grid</i> , 2015 , 6, 104-114	10.7	35
500	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	5.2	35
499	A probabilistic feature to determine type and extent of winding mechanical defects in power transformers. <i>Electric Power Systems Research</i> , 2012 , 82, 1-10	3.5	35
498	Inclusive Design and Implementation of Novel 40-Pulse ACDC Converter for Retrofit Applications and Harmonic Mitigation. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 667-677	8.9	34
497	A Novel Power Swing Detection Scheme Independent of the Rate of Change of Power System Parameters. <i>IEEE Transactions on Power Delivery</i> , 2014 , 29, 1192-1202	4.3	34
496	Cooperative Fault-Tolerant Control of Microgrids Under Switching Communication Topology. <i>IEEE Transactions on Smart Grid</i> , 2020 , 11, 1866-1879	10.7	34
495	Application of Hyper-Spherical Search algorithm for optimal energy resources dispatch in residential microgrids. <i>Applied Soft Computing Journal</i> , 2015 , 37, 15-23	7.5	33

494	Control of three-phase inverter-based DG system during fault condition without changing protection coordination. <i>International Journal of Electrical Power and Energy Systems</i> , 2014 , 63, 814-823	5.1	33
493	Application of hyper-spherical search algorithm for optimal coordination of overcurrent relays considering different relay characteristics. <i>International Journal of Electrical Power and Energy Systems</i> , 2016 , 83, 443-449	5.1	33
492	Multiterminal DC grids: Operating analogies to AC power systems. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 70, 886-895	16.2	32
491	Overcurrent Relays Coordination in Interconnected Networks Using Accurate Analytical Method and Based on Determination of Fault Critical Point. <i>IEEE Transactions on Power Delivery</i> , 2015 , 30, 870-873	4.3	32
490	. <i>IEEE Transactions on Smart Grid</i> , 2015 , 6, 1983-1991	10.7	32
489	Electrothermal performance and environmental effects of optimal photovoltaic thermal system. <i>Energy Conversion and Management</i> , 2015 , 95, 326-333	10.6	31
488	. <i>IEEE Transactions on Industrial Informatics</i> , 2015 , 11, 1334-1345	11.9	31
487	. <i>IEEE Transactions on Smart Grid</i> , 2015 , 1-1	10.7	31
486	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. <i>Journal of Cleaner Production</i> , 2018 , 174, 96-113	10.3	30
485	IoT Architecture for Smart Grids 2019 ,		30
484	Integration of smart grid technologies in stochastic multi-objective unit commitment: An economic emission analysis. <i>International Journal of Electrical Power and Energy Systems</i> , 2018 , 100, 565-590	5.1	29
483	Small Signal Stability Based Fuzzy Potential Function Proposal for Secondary Frequency and Voltage Control of Islanded Microgrid. <i>Electric Power Components and Systems</i> , 2013 , 41, 485-499	1	29
482	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. <i>Journal of Circuits, Systems and Computers</i> , 2017 , 26, 1750099	0.9	28
481	Distributed cooperative control system for smart microgrids. <i>Electric Power Systems Research</i> , 2016 , 130, 241-250	3.5	28
480	Localization of winding radial deformation and determination of deformation extent using vector fitting-based estimated transfer function. <i>European Transactions on Electrical Power</i> , 2009 , 19, 749-762		28
479	Combined operation of DC isolated distribution and PV systems for supplying unbalanced AC loads. <i>Renewable Energy</i> , 2009 , 34, 899-908	8.1	28
478	Power-Flow Control and Short-Circuit Current Limitation of Wind Farms Using Unified Interphase Power Controller. <i>IEEE Transactions on Power Delivery</i> , 2017 , 32, 62-71	4.3	27
477	Stochastic analysis of residential micro combined heat and power system. <i>Energy Conversion and Management</i> , 2017 , 138, 190-198	10.6	27

476	Protection coordination of directional overcurrent relays: new time current characteristic and objective function. <i>IET Generation, Transmission and Distribution</i> , 2018 , 12, 190-199	2.5	27
475	Optimal wind turbine allocation and network reconfiguration for enhancing resiliency of system after major faults caused by natural disaster considering uncertainty. <i>IET Renewable Power Generation</i> , 2018 , 12, 1413-1423	2.9	27
474	Novel high performance DC reactor type fault current limiter. <i>Electric Power Systems Research</i> , 2015 , 122, 198-207	3.5	27
473	A new algorithm for localization of radial deformation and determination of deformation extent in transformer windings. <i>Electric Power Systems Research</i> , 2008 , 78, 1701-1711	3.5	27
472	Determination of axial displacement extent based on transformer winding transfer function estimation using vector-fitting method. <i>European Transactions on Electrical Power</i> , 2008 , 18, 423-436		27
471	A New Transformer FRA Measurement Technique to Reach Smart Interpretation for Inter-Disk Faults. <i>IEEE Transactions on Power Delivery</i> , 2019 , 34, 1508-1519	4.3	26
470	Short-term interaction between electric vehicles and microgrid in decentralized vehicle-to-grid control methods. <i>Protection and Control of Modern Power Systems</i> , 2019 , 4,	6.7	26
469	Resilient H ∞ Consensus-Based Control of Autonomous AC Microgrids With Uncertain Time-Delayed Communications. <i>IEEE Transactions on Smart Grid</i> , 2020 , 11, 3871-3884	10.7	25
468	Improving Synchronous Generator Parameters Estimation Using d - q Axes Tests and Considering Saturation Effect. <i>IEEE Transactions on Industrial Informatics</i> , 2018 , 14, 1898-1908	11.9	25
467	Active and reactive power control of wind farm for enhancement transient stability of multi-machine power system using UIPC. <i>IET Renewable Power Generation</i> , 2017 , 11, 1246-1252	2.9	25
466	Ferroresonance suppression in power transformers using chaos theory. <i>International Journal of Electrical Power and Energy Systems</i> , 2013 , 45, 1-9	5.1	25
465	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> , 2011 , 5, 824	2.5	25
464	Zero-voltage switching bi-directional power electronic transformer. <i>IET Power Electronics</i> , 2010 , 3, 818	2.2	25
463	Reduction of THD and low order harmonics with symmetrical output current for single-phase ac/ac matrix converters. <i>International Journal of Electrical Power and Energy Systems</i> , 2010 , 32, 225-235	5.1	25
462	Distributed Fault-Tolerant Voltage/Frequency Synchronization in Autonomous AC Microgrids. <i>IEEE Transactions on Power Systems</i> , 2020 , 35, 3774-3789	7	24
461	Fuzzy-Adaptive Frequency Control of Power System Including Microgrids, Wind Farms, and Conventional Power Plants. <i>IEEE Systems Journal</i> , 2018 , 12, 2772-2781	4.3	24
460	New family of non-isolated step-up/down and step-up switched-capacitor-based DCDC converters. <i>IET Power Electronics</i> , 2019 , 12, 1706-1720	2.2	24
459	Game-theoretic approach to cooperative control of distributed energy resources in islanded microgrid considering voltage and frequency stability. <i>Neural Computing and Applications</i> , 2014 , 25, 343-351	4.8	24

458	Three-phase soft-switching-based interleaved boost converter with high reliability. <i>IET Power Electronics</i> , 2017 , 10, 377-386	2.2	24
457	Improvement of Power System Stability by Using New Switching Technique in Bridge-type Fault Current Limiter. <i>Electric Power Components and Systems</i> , 2015 , 43, 234-244	1	24
456	Distributed resources and DC distribution system combination for high power quality. <i>International Journal of Electrical Power and Energy Systems</i> , 2010 , 32, 769-781	5.1	24
455	Harmonic optimization in multi-level inverters using harmony search algorithm 2008 ,		23
454	Siting and sizing of DG units using GA and OPF based technique		23
453	Optimal operation of DG-based micro grid (MG) by considering demand response program (DRP). <i>Electric Power Systems Research</i> , 2019 , 167, 252-260	3.5	23
452	Power Flow Control of Interconnected ACDC Microgrids in Grid-Connected Hybrid Microgrids Using Modified UIPC. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 6298-6307	10.7	22
451	Determination and localisation of turn-to-turn fault in transformer winding using frequency response analysis. <i>IET Science, Measurement and Technology</i> , 2018 , 12, 291-300	1.5	22
450	Probabilistic multi-objective HVDC/AC transmission expansion planning considering distant wind/solar farms. <i>IET Science, Measurement and Technology</i> , 2016 , 10, 140-149	1.5	22
449	. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 2406-2416	7	22
448	Partial Discharge Localization Using Time Reversal: Application to Power Transformers. <i>Sensors</i> , 2020 , 20,	3.8	21
447	A New Power Management Scheme for Parallel-Connected PV Systems in Microgrids. <i>IEEE Transactions on Sustainable Energy</i> , 2018 , 9, 1605-1617	8.2	21
446	Overview of subsynchronous resonance analysis and control in wind turbines. <i>Renewable and Sustainable Energy Reviews</i> , 2013 , 27, 234-243	16.2	21
445	Determination of Transformer Winding Radial Deformation Using UWB System and Hyperboloid Method. <i>IEEE Sensors Journal</i> , 2015 , 15, 4194-4202	4	21
444	Extended configuration of dual active bridge DCDC converter with reduced number of switches. <i>IET Power Electronics</i> , 2015 , 8, 401-416	2.2	21
443	A Three-Phase Dimmable Lighting System Using a Bidirectional Power Electronic Transformer. <i>IEEE Transactions on Power Electronics</i> , 2009 , 24, 830-837	7.2	21
442	Elimination of Harmonics in a Multi-Level Inverter with Unequal DC Sources Using the Homotopy Algorithm 2007 ,		21
441	Inter-line dynamic voltage restorer control using a novel optimum energy consumption strategy. <i>Simulation Modelling Practice and Theory</i> , 2006 , 14, 989-999	3.9	21

440	Power Management of Microgrids Including PHEVs Based on Maximum Employment of Renewable Energy Resources. <i>IEEE Transactions on Industry Applications</i> , 2020 , 56, 5299-5307	4.3	21
439	HVDC Circuit Breakers: A Comprehensive Review. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 13726-13739	1.6	20
438	Sliding Mode Controller-Based BFCL for Fault Ride-Through Performance Enhancement of DFIG-Based Wind Turbines. <i>Complexity</i> , 2020 , 2020, 1-12	2.5	20
437	Dual function ferroresonance and fault current limiter based on DC reactor. <i>IET Generation, Transmission and Distribution</i> , 2016 , 10, 2058-2065		20
436	Power System Security Improvement by Using Differential Evolution Algorithm Based FACTS Allocation 2008 ,		20
435	Techno-economic assessment of hybrid renewable resources for a residential building in tehran. <i>Environmental Progress and Sustainable Energy</i> , 2019 , 38, 13209	2.5	19
434	Hyper-Spherical Search (HSS) algorithm: a novel meta-heuristic algorithm to optimize nonlinear functions. <i>Neural Computing and Applications</i> , 2014 , 25, 1455-1465	4.8	19
433	Assessing the risk of blackout in the power system including HVDC and FACTS devices. <i>International Transactions on Electrical Energy Systems</i> , 2013 , 23, 109-121	2.2	19
432	Insulation failure detection in transformer winding using cross-correlation technique with ANN and k-NN regression method during impulse test. <i>International Journal of Electrical Power and Energy Systems</i> , 2013 , 53, 209-218	5.1	19
431	Application of UIPC to improve power system stability and LVRT capability of SCIG-based wind farms. <i>IET Generation, Transmission and Distribution</i> , 2017 , 11, 2314-2322	2.5	19
430	New Single-Stage Single-Phase Three-Input DC-AC Boost Converter for Stand-Alone Hybrid PV/FC/UC Systems. <i>Electric Power Systems Research</i> , 2015 , 127, 1-12	3.5	19
429	Application of Ultra-Wideband Sensors for On-Line Monitoring of Transformer Winding Radial Deformations: A Feasibility Study. <i>IEEE Sensors Journal</i> , 2012 , 12, 1649-1659	4	19
428	Unified Interphase Power Controller (UIPC) Modeling and Its Comparison With IPC and UPFC. <i>IEEE Transactions on Power Delivery</i> , 2012 , 27, 1956-1963	4.3	19
427	Unified framework for frequency and voltage control of autonomous microgrids. <i>IET Generation, Transmission and Distribution</i> , 2013 , 7, 965-972	2.5	19
426	A new on-line monitoring method of transformer winding axial displacement based on measurement of scattering parameters and decision tree. <i>Expert Systems With Applications</i> , 2011 , 38, 8886-8893	7.8	19
425	Application of core vector machines for on-line voltage security assessment using a decision-tree-based feature selection algorithm. <i>IET Generation, Transmission and Distribution</i> , 2009 , 3, 701-712	2.5	19
424	A multi-objective voltage stability constrained energy management system for isolated microgrids. <i>International Journal of Electrical Power and Energy Systems</i> , 2020 , 117, 105646	5.1	19
423	Resilient Synchronization of Voltage/Frequency in AC Microgrids Under Deception Attacks. <i>IEEE Systems Journal</i> , 2021 , 15, 2125-2136	4.3	19

422	Modified transformer winding ladder network model to assess non-dominant frequencies. <i>IET Electric Power Applications</i> , 2017 , 11, 578-585	1.8	18
421	Internet of Energy (IoE) in Smart Power Systems 2019 ,		18
420	Information Gap Decision Theory-Based Active Distribution System Planning for Resilience Enhancement. <i>IEEE Transactions on Smart Grid</i> , 2020 , 11, 4390-4402	10.7	18
419	Resilient cooperative control of AC microgrids considering relative state-dependent noises and communication time-delays. <i>IET Renewable Power Generation</i> , 2020 , 14, 1321-1331	2.9	18
418	GLRT-Based Mitigation of Partial Discharge Effect on Detection of Radial Deformation of Transformer HV Winding Using SAR Imaging Method. <i>IEEE Sensors Journal</i> , 2016 , 16, 7234-7241	4	18
417	Accurate SFS Parameter Design Criterion for Inverter-Based Distributed Generation. <i>IEEE Transactions on Power Delivery</i> , 2016 , 31, 1050-1059	4.3	18
416	Coordinated Load Shedding Strategy to Restore Voltage and Frequency of Microgrid to Secure Region. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 4360-4368	10.7	18
415	Effect of transformer winding mechanical defects, internal and external electrical faults and inrush currents on performance of differential protection. <i>IET Generation, Transmission and Distribution</i> , 2017 , 11, 2508-2520	2.5	18
414	Bridge-type superconducting fault current limiter effect on distance relay characteristics. <i>International Journal of Electrical Power and Energy Systems</i> , 2015 , 68, 115-122	5.1	18
413	A dual-functional bridge type FCL to restore PCC voltage. <i>International Journal of Electrical Power and Energy Systems</i> , 2013 , 46, 49-55	5.1	18
412	Analysis and implementation of a modular isolated zero-voltage switching bidirectional dc/dc converter. <i>IET Power Electronics</i> , 2014 , 7, 2035-2049	2.2	17
411	A Feasibility Study on the Application of Radar Imaging for the Detection of Transformer Winding Radial Deformation. <i>IEEE Transactions on Power Delivery</i> , 2012 , 27, 2113-2121	4.3	17
410	Power System On-Line Static Security Assessment by Using Multi-Class Support Vector Machines. <i>Journal of Applied Sciences</i> , 2008 , 8, 2226-2233	0.3	17
409	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> , 2020 , 16, 67-76	11.9	17
408	Comprehensive coordination of combined directional overcurrent and distance relays considering miscoordination reduction. <i>International Journal of Electrical Power and Energy Systems</i> , 2017 , 92, 42-52	5.1	16
407	A New Three-mode Maximum Power Point Tracking Algorithm for Doubly Fed Induction Generator Based Wind Energy Conversion System. <i>Electric Power Components and Systems</i> , 2014 , 42, 45-59	1	16
406	Harmonic optimization in single DC source multi-level inverters using RBF neural networks 2012 ,		16
405	A Vector-based Approach to Discriminate Radial Deformation and Axial Displacement of Transformer Winding and Determine Defect Extent. <i>Electric Power Components and Systems</i> , 2012 , 40, 597-612	1	16

404	Determination of OD cooling system parameters based on thermal modeling of power transformer winding. <i>Simulation Modelling Practice and Theory</i> , 2008 , 16, 585-596	3.9	16
403	Optimal sizing and energy management of a grid-connected microgrid using HOMER software 2016		16
402	Robust Sliding Mode and Mixed H_2/H_∞ Output Feedback Primary Control of AC Microgrids. <i>IEEE Systems Journal</i> , 2021 , 15, 2420-2431	4.3	16
401	A new simplified model for assessment of power variation of DFIG-based wind farm participating in frequency control system. <i>Electric Power Systems Research</i> , 2017 , 148, 220-229	3.5	15
400	MILP model for integrated expansion planning of multi-carrier active energy systems. <i>IET Generation, Transmission and Distribution</i> , 2019 , 13, 1177-1189	2.5	15
399	Stochastic load effect on home energy system scheduling optimization. <i>International Transactions on Electrical Energy Systems</i> , 2015 , 25, 2412-2426	2.2	15
398	An innovative energy management framework for cooperative operation management of electricity and natural gas demands. <i>Energy Conversion and Management</i> , 2019 , 200, 112069	10.6	15
397	Modeling and detection of transformer internal incipient fault during impulse test. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2008 , 15, 284-291	2.3	15
396	Comparison of OMTD and OHSW harmonic optimization techniques in multi-level voltage-source inverter with non-equal DC sources 2007 ,		15
395	Partial Discharge Localization Using Electromagnetic Time Reversal: A Performance Analysis. <i>IEEE Access</i> , 2020 , 8, 147507-147515	3.5	15
394	Reconfiguration and DG Sizing and Placement Using Improved Shuffled Frog Leaping Algorithm. <i>Electric Power Components and Systems</i> , 2019 , 47, 1475-1488	1	15
393	Series transformer based diode-bridge-type solid state fault current limiter. <i>Frontiers of Information Technology and Electronic Engineering</i> , 2015 , 16, 769-784	2.2	14
392	Modeling and control of C-UPFC for power system transient studies. <i>Simulation Modelling Practice and Theory</i> , 2006 , 14, 564-576	3.9	14
391	Highly sensitive microgrid protection using overcurrent relays with a novel relay characteristic. <i>IET Renewable Power Generation</i> , 2020 , 14, 1201-1209	2.9	14
390	. <i>IEEE Access</i> , 2021 , 9, 43862-43875	3.5	14
389	Induction machine-based flywheel energy storage system modeling and control for frequency regulation after micro-grid islanding. <i>International Transactions on Electrical Energy Systems</i> , 2017 , 27, e2356	2.2	13
388	Performance analysis of distance relay in presence of unified interphase power controller and voltage-source converters-based interphase power controller. <i>IET Generation, Transmission and Distribution</i> , 2015 , 9, 1642-1651	2.5	13
387	Inductive fault current limiters: A review. <i>Electric Power Systems Research</i> , 2020 , 187, 106499	3.5	13

386	Optimal multi-objective D-STATCOM placement using MOGA for THD mitigation and cost minimization. <i>Journal of Intelligent and Fuzzy Systems</i> , 2018 , 35, 2339-2348	1.6	13
385	Optimal multi-stage PMU placement in electric power systems using Boolean algebra. <i>International Transactions on Electrical Energy Systems</i> , 2014 , 24, 562-577	2.2	13
384	THD reduction of PCC voltage by using bridge-type fault current limiter. <i>International Transactions on Electrical Energy Systems</i> , 2013 , 23, 655-668	2.2	13
383	Wide-area Method for Self-healing of Smart Grids in Unstable Oscillations. <i>Electric Power Components and Systems</i> , 2013 , 41, 365-382	1	13
382	Application of Characteristic Impedance and Wavelet Coherence Technique to Discriminate Mechanical Defects of Transformer Winding. <i>Electric Power Components and Systems</i> , 2013 , 41, 868-878 ¹		13
381	Improved bridge type inrush current limiter for primary grounded transformers. <i>Electric Power Systems Research</i> , 2013 , 95, 1-8	3.5	13
380	Grid-Tied and Stand-Alone Operation of Distributed Generation Modules Aggregated by Cascaded Boost Converters. <i>Journal of Power Electronics</i> , 2010 , 10, 97-105	0.9	13
379	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> , 2020 , 30, e12611	2.2	13
378	Stochastic multi-objective optimal energy and reactive power dispatch considering cost, loading margin and coordinated reactive power reserve management. <i>Electric Power Systems Research</i> , 2019 , 166, 163-177	3.5	13
377	Highly Accurate Directional Overcurrent Coordination via Combination of Rosen@ Gradient Projection@Complex Method With GA-PSO Algorithm. <i>IEEE Systems Journal</i> , 2020 , 14, 1171-1182	4.3	13
376	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	4	13
375	Robust Control Strategies for Microgrids: A Review. <i>IEEE Systems Journal</i> , 2021 , 1-12	4.3	13
374	Smart participation of PHEVs in controlling voltage and frequency of island microgrids. <i>International Journal of Electrical Power and Energy Systems</i> , 2019 , 110, 510-522	5.1	12
373	Energy Storage Systems 2017 , 333-368		12
372	Integration of Energy Balance of Soil Ionization in CIGRE Grounding Electrode Resistance Model. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2018 , 60, 402-413	2	12
371	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> , 2019 , 13, 1849-1860	2.9	12
370	Inrush current limiter based on three-phase diode bridge for Y-yg transformers. <i>IET Electric Power Applications</i> , 2012 , 6, 345	1.8	12
369	Improvement of estimation of surge arrester parameters by using Modified Particle Swarm Optimization. <i>Energy</i> , 2011 , 36, 4848-4854	7.9	12

368	Effect of type and interconnection of DG units in the fault current level of distribution networks 2008,		12
367	Fault current reduction in distribution systems with distributed generation units by a new dual functional series compensator 2008,		12
366	Impact of Distributed Generators on Distribution Feeder Reconfiguration 2007,		12
365	Control Systems for Independent Operation of Parallel DG Units in DC Distribution Systems 2006,		12
364	A critical review on soil ionisation modelling for grounding electrodes. <i>Archives of Electrical Engineering</i> , 2016 , 65, 449-461		12
363	Detection of HV Winding Radial Deformation and PD in Power Transformer Using Stepped-Frequency Hyperboloid Method. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2019 , 68, 2934-2942	5.2	12
362	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> , 2020 , 114, 105420	5.1	12
361	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> , 2019 , 108, 263-270	5.1	11
360	Power control strategy in islanded microgrids based on VF and PQ theory using droop control of inverters 2015,		11
359	Islanding detection in multiple-DG microgrid by utility side current measurement. <i>International Transactions on Electrical Energy Systems</i> , 2015 , 25, 1905-1922	2.2	11
358	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> , 2020 , 8, 95345-95359	3.5	11
357	Optimal PID controller of large-scale PV farms for power systems LFO damping. <i>International Transactions on Electrical Energy Systems</i> , 2020 , 30, e12372	2.2	11
356	A Hierarchical Regionalization-Based Load Shedding Plan to Recover Frequency and Voltage in Microgrid. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 3818-3827	10.7	11
355	Modeling the combination of UPQC and photovoltaic arrays with Multi-Input Single-Output DC-DC converter 2009,		11
354	On-line transient stability assessment of large-scale power systems by using ball vector machines. <i>Energy Conversion and Management</i> , 2010 , 51, 640-647	10.6	11
353	A Suitable Control Strategy for Source Converters and a Novel Load- Generation Voltage Control Scheme for DC Voltage Determination in DC Distribution Systems 2006,		11
352	Distributed LMI-based control of heterogeneous microgrids considering fixed time-delays and switching topologies. <i>IET Renewable Power Generation</i> , 2020 , 14, 2068-2078	2.9	11
351	Sinusoidal-Ripple Current Control in Battery Charger of Electric Vehicles. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 7201-7210	6.8	11

350	A Survey on Environmentally Friendly Vehicle Routing Problem and a Proposal of Its Classification. <i>Sustainability</i> , 2020 , 12, 9079	3.6	11
349	Compensation of voltage sag and flicker during thermal power plant turbo-expander operation by dynamic voltage restorer. <i>International Transactions on Electrical Energy Systems</i> , 2016 , 26, 16-31	2.2	10
348	A novel control strategy for Reflex-based electric vehicle charging station with grid support functionality. <i>Journal of Energy Storage</i> , 2017 , 12, 108-120	7.8	10
347	Application of multi-objective grey wolf algorithm on energy management of microgrids with techno-economic and environmental considerations 2018 ,		10
346	Reliability evaluation of a fault-tolerant three-phase interleaved DC-DC boost converter. <i>Transactions of the Institute of Measurement and Control</i> , 2019 , 41, 1278-1289	1.8	10
345	A Novel Measurement-Based Dynamic Equivalent Model of Grid-Connected Microgrids. <i>IEEE Transactions on Industrial Informatics</i> , 2019 , 15, 2032-2043	11.9	10
344	On-line voltage security assessment of power systems using core vector machines. <i>Engineering Applications of Artificial Intelligence</i> , 2009 , 22, 695-701	7.2	10
343	Flying capacitor multicell converter based dynamic voltage restorer 2009 ,		10
342	Analysis of multi-carrier PWM methods for asymmetric Multi-level inverter 2008 ,		10
341	Partial discharge acoustic emission detector using mandrel-connected fiber Bragg grating sensor. <i>Optical Engineering</i> , 2018 , 57, 1	1.1	10
340	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> , 2020 , 118, 105709	5.1	10
339	Optimal Multi-objective Number, Locating, and Sizing of Distributed Generations and Distributed Static Compensators Considering Loadability using the Genetic Algorithm. <i>Electric Power Components and Systems</i> , 2016 , 44, 2161-2171	1	10
338	Improvement of Identification Procedure Using Hybrid Cuckoo Search Algorithm for Turbine-Governor and Excitation System. <i>IEEE Transactions on Energy Conversion</i> , 2019 , 34, 585-593	5.4	10
337	. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 1-1	8.9	10
336	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> , 2021 , 168, 108322	4.6	10
335	Optimal locating and sizing of DG and D-STATCOM using Modified Shuffled Frog Leaping Algorithm 2017 ,		9
334	Cost-effective multi-pulse AC-DC converter with lower than 3% current THD. <i>International Journal of Circuit Theory and Applications</i> , 2019 , 47, 1105-1120	2	9
333	Simultaneous radial deformation and partial discharge detection of high-voltage winding of power transformer. <i>IET Electric Power Applications</i> , 2020 , 14, 383-390	1.8	9

332	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> , 2020 , 30, e12252	2.2	9
331	Single-Phase Modeling Approach in Dynamic Harmonic Domain. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 257-267	7	9
330	A Novel Accurate Power Sharing Method Versus Droop Control In Autonomous Microgrids With Critical Loads. <i>IEEE Access</i> , 2019 , 7, 89466-89474	3.5	9
329	Incomplete information-based decentralized cooperative control strategy for distributed energy resources of VSI-based microgrids. <i>Neural Computing and Applications</i> , 2014 , 25, 189-197	4.8	9
328	Non-linear load sharing and voltage harmonics compensation in islanded microgrids with converter interfaced units. <i>International Transactions on Electrical Energy Systems</i> , 2017 , 27, e2237	2.2	9
327	Practical Framework for Self-healing of Smart Grids in Stable/Unstable Power Swing Conditions. <i>Electric Power Components and Systems</i> , 2012 , 40, 575-596	1	9
326	Nonlinear multivariable modeling of solid oxide fuel cells using core vector regression. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 12538-12548	6.7	9
325	Hybrid SFS and Q-f Islanding Detection Method for inverter-based DG 2010 ,		9
324	DG allocation using an analytical method to minimize losses and to improve voltage security 2008 ,		9
323	An approach based on Particle Swarm Optimization for distribution feeder reconfiguration considering Distributed Generators 2007 ,		9
322	A Frequency Domain Method for Instantaneous Determination of Reference Current in Shunt Active Filter 2006 ,		9
321	Blockchain outlook for deployment of IoT in distribution networks and smart homes. <i>International Journal of Electrical and Computer Engineering</i> , 2020 , 10, 2787	1.4	9
320	Multi-resistor BFCL for FRT capability improvement of DFIG-based wind farm. <i>IET Energy Systems Integration</i> , 2020 , 2, 316-324	3.3	9
319	Cleaning of Floating Photovoltaic Systems: A Critical Review on Approaches from Technical and Economic Perspectives. <i>Energies</i> , 2021 , 14, 2018	3.1	9
318	Blockchain, a Sustainable Solution for Cybersecurity Using Cryptocurrency for Financial Transactions in Smart Grids 2019 ,		9
317	A Novel Control Method Based on Droop for Cooperation of Flywheel and Battery Energy Storage Systems in Islanded Microgrids. <i>IEEE Systems Journal</i> , 2020 , 14, 1080-1087	4.3	9
316	. <i>IEEE Systems Journal</i> , 2017 , 11, 1897-1906	4.3	8
315	Solar Energy and Photovoltaic Technology 2017 , 69-147		8

314	Ferroresonance After Islanding of Synchronous Machine-Based Distributed Generation. <i>Canadian Journal of Electrical and Computer Engineering</i> , 2015 , 38, 154-161	1.4	8
313	General pre-fault transient stability estimation index using wide area phasor measurements. <i>International Transactions on Electrical Energy Systems</i> , 2015 , 25, 1522-1538	2.2	8
312	Characterisation of internal incipient faults in transformers during impulse test using index based on S matrix energy and standard deviation. <i>IET Electric Power Applications</i> , 2012 , 6, 225	1.8	8
311	Ferroresonance of Power Transformers Considering Non-linear Core Losses and Metal Oxide Surge Arrester Effects. <i>Electric Power Components and Systems</i> , 2012 , 40, 463-479	1	8
310	Three dimensional Pareto Optimal solution to design a hybrid stand-alone wind/PV generation system with hydrogen energy storage using multi-objective Particle Swarm Optimization 2012 ,		8
309	A new method based on sensitivity analysis to optimize the placement of SSSCs. <i>Turkish Journal of Electrical Engineering and Computer Sciences</i> , 2013 , 21, 1956-1971	0.9	8
308	Application of Classifiers for On-line Monitoring of Transformer Winding Axial Displacement by Electromagnetic Non-destructive Testing. <i>Electric Power Components and Systems</i> , 2011 , 39, 387-403	1	8
307	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> , 2011 , 5, 1132	2.5	8
306	Optimum regulation of DC sources in cascaded multi-level inverters. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2009 , 28, 385-395	0.7	8
305	Estimation of simulated transfer function to discriminate axial displacement and radial deformation of transformer winding. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2012 , 31, 1277-1292	0.7	8
304	Reliability assessment of single-stage/two-stage PFC converters 2009 ,		8
303	Bi-directional power electronic transformer with maximum power-point tracking capability for induction heating applications. <i>IET Power Electronics</i> , 2010 , 3, 724	2.2	8
302	An Experimental Investigation and Model Development of Arc Discharge during Impulse Test 2006 ,		8
301	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> , 2016 , 44, 833-842	1	8
300	High-Resolution FBG-Based Fiber-Optic Sensor with Temperature Compensation for PD Monitoring. <i>Sensors</i> , 2019 , 19,	3.8	8
299	Robust Nonlinear State Feedback Control of Bidirectional Interlink Power Converters in Grid-Connected Hybrid Microgrids. <i>IEEE Systems Journal</i> , 2020 , 14, 1117-1124	4.3	8
298	A New Diagnostic Technique for Reliable Decision-Making on Transformer FRA Data in Interturn Short-Circuit Condition. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 17, 3020-3031	11.9	8
297	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> , 2021 , 9, 3254-3265	5.6	8

296	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> , 2021 , 31, e12612	2.2	8
295	Localization of Radial Deformation and Its Extent in Power Transformer HV Winding Using Stationary UWB Antennas. <i>IEEE Sensors Journal</i> , 2017 , 17, 3184-3192	4	7
294	A Charging Strategy for PHEVs Based on Maximum Employment of Renewable Energy Resources in Microgrid 2019 ,		7
293	Generalised representation of multi-terminal VSC-HVDC systems for ACDC power flow studies. <i>IET Energy Systems Integration</i> , 2020 , 2, 50-58	3.3	7
292	Highly reliable overcurrent protection scheme for highly meshed power systems. <i>International Journal of Electrical Power and Energy Systems</i> , 2020 , 119, 105874	5.1	7
291	Optimal distribution systems reconfiguration for short circuit level reduction using PSO algorithm 2018 ,		7
290	Islanding detection scheme based on adaptive identifier signal estimation method. <i>ISA Transactions</i> , 2017 , 71, 328-340	5.5	7
289	Optimal Allocation and Operating Point of DG Units in Radial Distribution Network Considering Load Pattern. <i>Electric Power Components and Systems</i> , 2017 , 45, 1287-1297	1	7
288	The Basic Principles of Wind Farms 2017 , 21-67		7
287	Generalized voltage droop control with inertia mimicry capability - step towards automation of multi-terminal HVDC grids 2015 ,		7
286	2015 ,		7
285	Stacked multicell converter based DVR with energy minimized compensation strategy 2009 ,		7
284	A Simple and Unified Method to Model HVDC Links and FACTS Devices in DC Load Flow. <i>Simulation</i> , 2009 , 85, 101-109	1.2	7
283	An accurate method for estimation of series and parallel resistance in detailed model of transformer winding using impulse test results. <i>Electrical Engineering</i> , 2004 , 86, 255	1.5	7
282	Risk management of smart grids based on plug-in hybrid electric vehicles charging considering transformers hottest spot temperature-dependent aging failures. <i>Journal of Renewable and Sustainable Energy</i> , 2016 , 8, 034102	2.5	7
281	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> , 2016 , 30, 1353-1366 ^{1.6}		7
280	A Novel Strategy for Optimal Battery Sizing Based on MG Frequency Security Criterion 2019 ,		7
279	Optimal Energy Scheduling for a Microgrid Encompassing DRRs and Energy Hub Paradigm Subject to Alleviate Emission and Operational Costs 2018 ,		7

278	Dynamic Phasor-Based Analysis of Unbalanced Three-Phase Systems in Presence of Harmonic Distortion. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 6642-6654	7	7
277	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> , 2020 , 122, 106203	5.1	6
276	Equivalent model parameter estimation of grid-connected fuel cell-based microgrid. <i>International Transactions on Electrical Energy Systems</i> , 2018 , 28, e2540	2.2	6
275	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> , 2019 , 47, 1630-1644	2	6
274	Detection of Winding Radial Deformation in Power Transformers by Confocal Microwave Imaging. <i>Electric Power Components and Systems</i> , 2014 , 42, 605-611	1	6
273	PMU-based linear and nonlinear black-box modelling of power systems 2013 ,		6
272	Discrimination Between Radial Deformation and Axial Displacement in Power Transformers Using Analysis of Electromagnetic Waves. <i>IEEE Sensors Journal</i> , 2017 , 17, 5324-5331	4	6
271	Using genetic algorithm and simulated annealing for 27-level PV inverter THD minimization 2014 ,		6
270	Analysis and design of current-fed high step up quasi-resonant DC-DC converter for fuel cell applications 2013 ,		6
269	Optimal sizing of micro grid & distributed generation units under pool electricity market. <i>Journal of Renewable and Sustainable Energy</i> , 2011 , 3, 053103	2.5	6
268	New method for estimating flying capacitor voltages in stacked multicell and flying capacitor multicell converters. <i>Journal of Zhejiang University: Science C</i> , 2010 , 11, 654-662		6
267	2010 ,		6
266	Bi-directional power electronic transformer based compact dynamic voltage restorer 2009 ,		6
265	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	5.1	6
264	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> , 2020 , 1-1	5.6	6
263	Interactive fuzzy satisfying-based HVDC/AC transmission expansion planning considering investment cost and network loss. <i>International Transactions on Electrical Energy Systems</i> , 2016 , 26, 2425-2444	2.2	6
262	Probabilistic interactive fuzzy satisfying generation and transmission expansion planning using fuzzy adaptive chaotic binary PSO algorithm. <i>Journal of Intelligent and Fuzzy Systems</i> , 2016 , 30, 1629-1641	1.6	6
261	Three phase photovoltaic grid-tied inverter based on feed-forward decoupling control using fuzzy-PI controller 2016 ,		6

260	Scheduling of Distributed Energy Resources in Active Distribution Networks Considering Combination of Techno-Economic and Environmental Objectives 2019 ,		6
259	Voltage quality and load sharing improvement in islanded microgrids using distributed hierarchical control. <i>IET Renewable Power Generation</i> , 2019 , 13, 2888-2898	2.9	6
258	A 20-Pulse Autotransformer Rectifier Unit for More Electric Aircrafts. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 9, 2992-2999	5.6	6
257	RTISim: A New Real-Time Isolated Simulator for Turbine-Governor System of Industrial Power Plants 2018 ,		6
256	A Step Forward in Application of Dynamic Harmonic Domain: Phase Shifting Property of Harmonics. <i>IEEE Transactions on Power Delivery</i> , 2017 , 32, 219-225	4.3	5
255	A novel energy-reliability market framework for participation of microgrids in transactive energy system. <i>International Journal of Electrical Power and Energy Systems</i> , 2020 , 122, 106193	5.1	5
254	Distribution Generation Optimization and Energy Management 2017 , 415-451		5
253	Frequency regulation of AUT microgrid using modified fuzzy PI controller for flywheel energy storage system 2018 ,		5
252	Offshore Wind Farm Power Control Using HVdc Link. <i>Canadian Journal of Electrical and Computer Engineering</i> , 2016 , 39, 168-173	1.4	5
251	Split-winding transformer design using new hybrid optimisation algorithm based on PSO and I-BB-BC. <i>IET Science, Measurement and Technology</i> , 2018 , 12, 712-718	1.5	5
250	Optimal allocation of energy storage systems in connected microgrid to minimize the energy cost 2014 ,		5
249	High gain high-voltage z-source converter for offshore wind energy systems 2014 ,		5
248	Detection of internal incipient faults in transformers during impulse test using hyperbolic S-transform. <i>International Transactions on Electrical Energy Systems</i> , 2013 , 23, 701-718	2.2	5
247	Improving power sharing and reduction circulating current in parallel inverters of isolated microgrids 2013 ,		5
246	Nonlinear controller design for IPC using feedback linearization method. <i>International Journal of Electrical Power and Energy Systems</i> , 2013 , 44, 778-785	5.1	5
245	Transformerless Inverter with Charge Pump Circuit Concept for PV Application. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2017 , 1-1	5.6	5
244	Fault Current Limiter Placement Using Multi-Objective Firework Algorithm. <i>Electric Power Components and Systems</i> , 2017 , 45, 1929-1940	1	5
243	Fuzzy chopper-based load emulator for AUT microgrid 2017 ,		5

242	Optimal placement and sizing of DGs considering static voltage stability 2017 ,		5
241	Unit commitment in smart grids with wind farms using virus colony search algorithm and considering adopted bidding strategy 2017 ,		5
240	The effect of various types of distributed generations on ferroresonance 2014 ,		5
239	Static Inter-Phase Power Controller (SIPC) modeling for load flow and short circuit studies. <i>Energy Conversion and Management</i> , 2012 , 64, 145-151	10.6	5
238	Distributed generation site and size allocation through a techno economical multi-objective Differential Evolution Algorithm 2010 ,		5
237	Reliability comparison of boost PFC converter in DCM and CCM operating modes 2008 ,		5
236	Loss reduction of distribution system using APLC. <i>Simulation Modelling Practice and Theory</i> , 2005 , 13, 169-178	3.9	5
235	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> , 2020 , 14, 6319-6329	2.5	5
234	Optimal resource planning of smart home energy system under dynamic pricing based on invasive weed optimization algorithm 2016 ,		5
233	2016 ,		5
232	Enhanced Frequency Control Method for Microgrid-Connected Flywheel Energy Storage System. <i>IEEE Systems Journal</i> , 2021 , 15, 4503-4513	4.3	5
231	A new generalized cascade multilevel converter topology and its improved modulation technique. <i>International Journal of Circuit Theory and Applications</i> , 2021 , 49, 1103-1120	2	5
230	Delivering Smooth Power to Pulse-Current Battery Chargers: Electric Vehicles as a Case in Point. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 1295-1302	7.2	5
229	Reduction of Output Power Pulsations for Electric Vehicles by Changing Distances between Transmitter Coils 2018 ,		5
228	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> , 2021 , 537, 168184	2.8	5
227	Turn-to-Turn Short Circuit Fault Localization in Transformer Winding via Image Processing and Deep Learning Method. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 1-1	11.9	5
226	Online dynamic security assessment of microgrids before intentional islanding occurrence. <i>Neural Computing and Applications</i> , 2015 , 26, 659-668	4.8	4
225	A general approach for optimal allocation of FACTS devices using equivalent impedance models of VSCs. <i>International Transactions on Electrical Energy Systems</i> , 2015 , 25, 1187-1203	2.2	4

224	Improved configuration for symmetric and asymmetric multilevel inverters with reduced number of circuit devices. <i>International Journal of Ambient Energy</i> , 2018 , 39, 424-431	2	4
223	A control method for stable operation of distributed generation resources with active power filter capability 2016 ,		4
222	Reduction of Circuit Devices in Developed Symmetrical/Asymmetrical Multilevel Converters. <i>Journal of Circuits, Systems and Computers</i> , 2016 , 25, 1650020	0.9	4
221	Determination of transformer HV winding axial displacement extent using hyperbolic method \square feasibility study. <i>IET Electric Power Applications</i> , 2019 , 13, 1004-1013	1.8	4
220	Compensation of DGs impact on overcurrent protection system of smart micro-grids 2013 ,		4
219	A modified transformer-type fault current limiter for enhancement fault ride-through capability of fixed speed-based wind power plants 2017 ,		4
218	Energy management in smart home including PV panel, battery, electric heater with integration of plug-in electric vehicle 2017 ,		4
217	Voltage controllers for DC-DC boost converters in discontinuous current mode 2015 ,		4
216	Imperialistic Competitive Algorithm Based Unit Commitment Considering Risk of Cascading Blackout. <i>Electric Power Components and Systems</i> , 2015 , 43, 374-383	1	4
215	Comparison of the parameter estimation methods of surge arresters using modified particle swarm optimization algorithm. <i>European Transactions on Electrical Power</i> , 2012 , 22, 1146-1160		4
214	Dynamic analysis of DVR implementation based on nonlinear control by IOFL 2011 ,		4
213	On-line Small-signal Stability Assessment of Power Systems Using Ball Vector Machines. <i>Electric Power Components and Systems</i> , 2010 , 38, 1427-1445	1	4
212	Allocation of UPFC in North West grid of Iran to increase power system security 2010 ,		4
211	Simulation of on-line monitoring of transformer winding axial displacement 2010 ,		4
210	Optimal PMU placement for voltage security assessment using decision tree 2009 ,		4
209	A control method to enhance dynamic performance of parallel inverters in islanded microgrid 2011 ,		4
208	A new nonlinear controller design using average state space model of the inverter-based Distributed Generation to mitigate power quality problems 2009 ,		4
207	A Novel Switching Algorithm to Balance Conduction Losses in Power Semiconductor Devices of Multi-level Cascade Inverters. <i>Electric Power Components and Systems</i> , 2008 , 36, 1253-1281	1	4

206	A novel switching algorithm to balance conduction losses in power semiconductor devices of full-bridge inverters. <i>European Transactions on Electrical Power</i> , 2008 , 18, 694-708		4
205	An Efficient Algorithm for Determining the Values of Elements of Interphase Power Controller as a Fault Limiter 2006 ,		4
204	Novel and Simple Control Strategy for Fuel Cell Converters in DC Distribution Systems 2006 ,		4
203	A disk-to-disk breakdown and arc modeling method for fault diagnosis of power transformers during impulse testing. <i>Electrical Engineering</i> , 2004 , 86, 261	1.5	4
202	Modeling of switching and conduction losses in three-phase SPWM VSC using switching function concept 2005 ,		4
201	Smart V2G/G2V Charging Strategy for PHEVs in AC Microgrids Based on Maximizing Battery Lifetime and RER/DER Employment. <i>IEEE Systems Journal</i> , 2020 , 1-11	4.3	4
200	Thyristor-Controlled AC Reactor Based Fault Current Limiter for Distribution Network Stability Enhancement. <i>Journal of Electrical Engineering and Technology</i> , 2016 , 11, 1070-1076	1.4	4
199	Optimal Planning of an Off-grid Electricity Generation with Renewable Energy Resources using the HOMER Software. <i>International Journal of Power Electronics and Drive Systems</i> , 2015 , 6, 137	1.5	4
198	Application of IoT in Smart Grid: Challenges and Solutions 2019 ,		4
197	Improving LVRT capability of microgrid by using bridge-type fault current limiter. <i>Electric Power Systems Research</i> , 2021 , 191, 106872	3.5	4
196	Robust Distributed Disturbance-Resilient ∞ -Based Control of Off-Grid Microgrids With Uncertain Communications. <i>IEEE Systems Journal</i> , 2021 , 15, 2895-2905	4.3	4
195	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> , 2021 , 25, 100424	3.6	4
194	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> , 2018 , 12, 514-520	1.5	4
193	Distributed hierarchical control structure for voltage harmonic compensation and harmonic current sharing in isolated MicroGrids. <i>Sustainable Energy, Grids and Networks</i> , 2018 , 16, 55-69	3.6	4
192	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> , 2021 , 36, 1589-1599	5.4	4
191	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> , 2021 , 131, 107044	5.1	4
190	Pulse Tripling Circuit and Twelve Pulse Rectifier Combination for Sinusoidal Input Current. <i>IEEE Access</i> , 2021 , 9, 103588-103599	3.5	4
189	A New Wireless Power Transfer Topology based on Quasi-Z-Source and LLC Resonant Network with Low Input Current THD 2019 ,		3

188	Sensitivity Analysis on Ladder Network Equivalent Circuit Parameters of Power Transformer. <i>Electric Power Components and Systems</i> , 2015 , 43, 2168-2177	1	3
187	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> , 2020 , 14, 478-485	1.5	3
186	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> , 2020 , 28, 485-499	0.9	3
185	Market Design Issues of Distributed Generation 2017 , 369-413		3
184	Impact of Distributed Generation Integration on the Reliability of Power Distribution Systems 2017 , 453-508		3
183	Virtual power plant management in presence of renewable energy resources 2016 ,		3
182	A new fuzzy-based current control strategy with fixed switching frequency for improving D-STATCOM performance. <i>Journal of Intelligent and Fuzzy Systems</i> , 2018 , 35, 3285-3294	1.6	3
181	Optimal Switching Algorithm for Different Topologies of 15-Level Inverter Using Genetic Algorithm 2019 ,		3
180	Decentralised primary and secondary control strategies for islanded microgrids considering energy storage systems characteristics. <i>IET Generation, Transmission and Distribution</i> , 2019 , 13, 2986-2992	2.5	3
179	2019 ,		3
178	Combined design of VSC-HVDC and PSS controllers for LFO damping enhancement. <i>Transactions of the Institute of Measurement and Control</i> , 2014 , 36, 529-540	1.8	3
177	Zero voltage switching analysis of modular isolated bidirectional DC-DC converter 2014 ,		3
176	Optimized Allocation of DGs to Improve System Reliability Based on Loading Effects. <i>Arabian Journal for Science and Engineering</i> , 2014 , 39, 3907-3915		3
175	Pattern Discovery Based Preventive Control Strategy for Voltage Source Inverter Based Microgrids Against Islanding. <i>Electric Power Components and Systems</i> , 2014 , 42, 507-519	1	3
174	Exact determination of a winding disk radial deformation location considering tank effect using an analytical method 2013 ,		3
173	A novel symmetric/asymmetric multilevel current source inverter topology with lower number of components and lowest power rating of switches. <i>International Journal of Ambient Energy</i> , 2017 , 38, 858-864	2	3
172	Intelligent hierarchical structure of classifiers to assess static security of power system. <i>Journal of Intelligent and Fuzzy Systems</i> , 2015 , 28, 2875-2880	1.6	3
171	Effect of electric vehicle load and charging pattern on generation expansion planning 2015 ,		3

170	Detection and Classification of Transformer Winding Mechanical Faults Using UWB Sensors and Bayesian Classifier. <i>International Journal of Emerging Electric Power Systems</i> , 2015 , 16, 207-215	1.4	3
169	Passive AC network supplying the integration of CCC-HVDC and VSC-HVDC systems. <i>Turkish Journal of Electrical Engineering and Computer Sciences</i> , 2014 , 22, 353-362	0.9	3
168	Employing TCPS for suppressing oscillations in two-area system constitute of wind farm and thermal system. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 2012 , 7, 130-135	1	3
167	An optimization to improve voltage response of VSI in islanded Microgrid considering reactive power sharing 2012 ,		3
166	Regulation of DC link voltage in VSC-HVDC to prevent DC voltage instability based on accurate dynamic model 2013 ,		3
165	Two-area frequency control in overloaded conditions by using HVDC transmission 2013 ,		3
164	A New Parameter Estimation Algorithm for Metal Oxide Surge Arrester. <i>Electric Power Components and Systems</i> , 2011 , 39, 696-712	1	3
163	Multifunction current controller for inverter-based distributed generation using combined pi-sliding mode controller via Sigma-Delta Modulation 2009 ,		3
162	A Tri-directional power electronic transformer for photo voltaic based distributed generation application 2009 ,		3
161	Application of multi-class support vector machines for power system on-line static security assessment using DT - based feature and data selection algorithms. <i>Journal of Intelligent and Fuzzy Systems</i> , 2009 , 20, 133-146	1.6	3
160	Power management and performance improvement in integrated system of variable speed wind turbine and UPQC 2009 ,		3
159	Development of modulation strategies for three-phase to two-phase matrix converters. <i>International Journal of Power Electronics</i> , 2010 , 2, 82	0.2	3
158	A new BVM based approach to transient security assessment. <i>European Transactions on Electrical Power</i> , 2010 , 20, 1163-1176		3
157	Power control strategy of parallel inverter interfaced DG units 2008 ,		3
156	Bi-directional power electronic transformer for induction heating systems. <i>Canadian Conference on Electrical and Computer Engineering</i> , 2008 ,		3
155	Determination of mean and variance of LMP using probabilistic DCOPF and T-PEM 2008 ,		3
154	Dynamic operation of a photovoltaic system connected to distribution system 2008 ,		3
153	A Deep Learning-Based Approach for Generation Expansion Planning Considering Power Plants Lifetime. <i>Energies</i> , 2021 , 14, 8035	3.1	3

152	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> , 2021 , 187, 110292	4.6	3
151	A hybrid active load and ideal synchronous condenser-based model for STATCOM applied to power flow studies. <i>IET Energy Systems Integration</i> , 2019 , 1, 229-235	3.3	3
150	A novel approach for sizing thermal and electrical energy storage systems for energy management of islanded residential microgrid. <i>Energy and Buildings</i> , 2021 , 238, 110850	7	3
149	A fractional order proportional-integral controller design to improve load sharing between DGs in microgrid 2016 ,		3
148	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> , 2016 , 83, 15-20	5.1	3
147	Attributes of Big Data Analytics for Data-Driven Decision Making in Cyber-Physical Power Systems 2019 ,		3
146	A developed single-phase cascaded multilevel inverter with reduced number of circuit devices. <i>International Journal of Ambient Energy</i> , 2019 , 40, 254-262	2	3
145	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> , 2021 , 9, 970-979	5.6	3
144	Strategic Bidding in Distribution Network Electricity Market Focusing on Competition Modeling and Uncertainties. <i>Journal of Modern Power Systems and Clean Energy</i> , 2021 , 9, 561-572	4	3
143	Real-Time Implementation of Asynchronous Machine using LabVIEW RTX and FPGA Module 2018 ,		3
142	Environment Compatible Management Strategy of Distributed Generation Based on Neural Network with a Power Capacity Index 2018 ,		3
141	Important Technical Considerations in Design of Battery Chargers of Electric Vehicles. <i>Energies</i> , 2021 , 14, 5878	3.1	3
140	A Survey on FOPID Controllers for LFO Damping in Power Systems Using Synchronous Generators, FACTS Devices and Inverter-Based Power Plants. <i>Energies</i> , 2021 , 14, 5983	3.1	3
139	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> , 2022 , 41, 381-409	0.7	3
138	Enhancement of Output Power Smoothing and Transient Stability of DFIG-Based Wind Energy Conversion System Using Optimized Controllers Parameters. <i>Electric Power Components and Systems</i> , 2017 , 45, 726-738	1	2
137	Superior decoupled control of active and reactive power for three-phase voltage source converters. <i>Turkish Journal of Electrical Engineering and Computer Sciences</i> , 2015 , 23, 1025-1039	0.9	2
136	New Representation of Power Injection Model of IDC-PFC within NR-based MT-HVDC Grids Power Flow Studies 2020 ,		2
135	Two designs for DCDC stage of electric vehicle charging stations. <i>Electrical Engineering</i> , 2020 , 102, 2389-2399	2.399	2

134	A Droop-Based Diesel Generator Emulator for Microgrid Frequency Control Studies. <i>Iranian Journal of Science and Technology - Transactions of Electrical Engineering</i> , 2020 , 44, 1281-1291	1.9	2
133	Replacement of natural gas with electricity to improve seismic service resilience: An application to domestic energy utilities in Iran. <i>Energy</i> , 2020 , 200, 117509	7.9	2
132	Autonomous inertia-sharing control of multi-terminal VSC-HVDC grids 2016 ,		2
131	Combined heat and power sizing in residential building using mixed integer nonlinear programming optimization method 2016 ,		2
130	Iranian smart grid: road map and metering program 2018 , 13-60		2
129	Optimal coordination of distance and over-current relays using ICA 2014 ,		2
128	A new fast approach for islanding detection in the distribution networks with high penetration of distributed generation 2013 ,		2
127	A new electric vehicle charging station based on pulse current charging method 2017 ,		2
126	A new control system for grid-feeding power converters of solid oxide fuel cells 2017 ,		2
125	Detection and localization of disk-to-disk short circuits in transformer HV windings using an improved model. <i>International Transactions on Electrical Energy Systems</i> , 2017 , 27, e2393	2.2	2
124	Parameters estimation of electric arc furnace based on an analytical solution of power balance equation. <i>International Transactions on Electrical Energy Systems</i> , 2017 , 27, e2295	2.2	2
123	A new soil ionization model for grounding electrodes. <i>International Transactions on Electrical Energy Systems</i> , 2017 , 27, e2266	2.2	2
122	On the accuracy of detailed model inductance matrix estimation for air core winding. <i>Archives of Electrical Engineering</i> , 2017 , 66, 787-799		2
121	Distributed Energy Resources 2017 , 1-19		2
120	An advanced fuzzy control method to improve dynamic stability of power system with PV units 2015 ,		2
119	Locating Pd in Transformers through Detailed Model and Neural Networks. <i>Journal of Electrical Engineering</i> , 2014 , 65, 75-82	0.6	2
118	Small signal stability assessment of islanded VSI-based microgrids considering load variations 2014 ,		2
117	2014 ,		2

116	Optimized harmonic estimation in bus transfer systems from polluted grid to DG unit using wavelet transform and radial basis functions neural networks 2012 ,		2
115	The effect of load condition on stability in isolated Microgrids 2012 ,		2
114	Resistive Ferroresonance Limiter for Potential Transformers. <i>Advances in Power Electronics</i> , 2012 , 2012, 1-6		2
113	A novel parameter estimation method for metal oxide surge arrester models. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2011 , 36, 941-961	1	2
112	Feasibility studies on on-line monitoring of transformer winding mechanical damage using UWB sensors 2010 ,		2
111	Detection of transformer winding radial deformations by using UWB pulses and DWT 2010 ,		2
110	Combined Operation of AC and DC Distribution System with Distributed Generation Units. <i>Journal of Electrical Engineering</i> , 2010 , 61, 193-204	0.6	2
109	LMP calculation, considering network topology uncertainty 2010 ,		2
108	Detection of transformer winding axial displacement using scattering parameter and ANN 2010 ,		2
107	One day ahead prediction of wind speed based on power and exponential 2010 ,		2
106	Optimized regulation of DC voltage in Interline Power Flow Controller (IPFC) using genetic algorithm 2010 ,		2
105	Antennas positioning for on-line monitoring of transformer winding radial deformation using UWB sensors 2010 ,		2
104	Comparision between two stand-alone PV configurations: Series PVs versus series VSCs 2011 ,		2
103	Determiration of aggregated load power consumption, under non-sinusoidal supply using an improved load model. <i>Energy Conversion and Management</i> , 2009 , 50, 1563-1569	10.6	2
102	Problems associated with parallel performance of high current semiconductor switches and their remedy 2008 ,		2
101	Effect of antenna position on on-line monitoring of transformer winding axial displacement using electromagnetic waves 2008 ,		2
100	Reliability considerations for full-bridge DC-DC converter in fuel-cell applications 2008 ,		2
99	A New Switching Strategy for 3-Phase to 2-Phase Matrix Converters 2006 ,		2

98	Soft-Threshold Wavelet De-Noising Technique Application for a Single Arc Discharge Across a Static Gap 2006 ,		2
97	An Algorithm for Evaluating Inrush Current in Transformers Using Jiles-Atherton Theory of Ferromagnetic Hysteresis 2006 ,		2
96	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> , 2020 , 14, 5060-5071	2.5	2
95	Bi-Level Decomposition Approach for Coordinated Planning of an Energy Hub With Gas-Electricity Integrated Systems. <i>IEEE Systems Journal</i> , 2021 , 1-11	4.3	2
94	Inrush Current Limiting of Transformer Primary Winding With Grounded or Nongrounded Y-Connection Using Diode Bridges. <i>Canadian Journal of Electrical and Computer Engineering</i> , 2017 , 40, 229-236	1.4	2
93	Multi-objective Optimization of Microgrid Frequency and Energy Storage Capacity. <i>Renewable Energy and Power Quality Journal</i> , 1036-1040		2
92	Compensation of Voltage Harmonics for LCL-filtered Inverters in Islanded Microgrids. <i>Renewable Energy and Power Quality Journal</i> , 2017 , 1, 847-853		2
91	Confidence Level Estimation for Advanced Decision-Making in Transformer Short-circuit Fault Diagnosis. <i>IEEE Transactions on Industry Applications</i> , 2021 , 1-1	4.3	2
90	Premium Power Quality Using Combination of Microturbine Unit and DC Distribution System. <i>Journal of Electrical Engineering and Technology</i> , 2010 , 5, 103-115	1.4	2
89	Recovery of Partial Discharge Signal and Noise Cancellation in Power Transformer Using Radial Basis Function. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020 , 69, 3388-3394	5.2	2
88	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> , 2020 , 117, 105694	5.1	2
87	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> , 2021 , 13, 5243	3.6	2
86	Quasi-Luenberger Observer-Based Robust DC Link Control of UIPC for Flexible Power Exchange Control in Hybrid Microgrids. <i>IEEE Systems Journal</i> , 2021 , 15, 2845-2854	4.3	2
85	An improved 24-pulse rectifier for harmonic mitigation in more electric aircraft. <i>IET Power Electronics</i> , 2021 , 14, 2007-2020	2.2	2
84	Valuable tips for transformer ladder network parameters estimation 2016 ,		2
83	Damping of low-frequency oscillation in power systems using hybrid renewable energy power plants. <i>Turkish Journal of Electrical Engineering and Computer Sciences</i> , 2019 , 27, 3852-3867	0.9	2
82	Electromagnetic transients modelling of split-winding traction transformers for frequency response analysis. <i>IET Science, Measurement and Technology</i> , 2019 , 13, 1362-1371	1.5	2
81	Improved hyper-spherical search algorithm for voltage total harmonic distortion minimization in 27-level inverter. <i>Journal of Central South University</i> , 2019 , 26, 2822-2832	2.1	2

80	Constant power control of variable speed wind farm for primary frequency control support. <i>Energy Systems</i> , 2019 , 10, 163-183	1.7	2
79	Flatness-Based Decentralized Control of Bidirectional Interlink Power Converters in Grid-Connected Hybrid Microgrids Using Adaptive High-Gain PI-ObsERVER. <i>IEEE Systems Journal</i> , 2021 , 15, 478-486	4.3	2
78	Damping of Low-Frequency Oscillations in Power Systems by Large-Scale PV Farms: A Comprehensive Review of Control Methods. <i>IEEE Access</i> , 2021 , 9, 72183-72206	3.5	2
77	Microgrid control strategies 2021 , 7-58		2
76	Bi-level power management strategy in harmonic-polluted active distribution network including virtual power plants. <i>IET Renewable Power Generation</i> , 2021 , 15, 462-476	2.9	2
75	Design and Implementation of a Simple Diesel Generator Emulator for Frequency Analysis of Laboratory-Scale Microgrids 2018 ,		2
74	Green Power Island, a Blue Battery Concept for Energy Management of High Penetration of Renewable Energy Sources with Techno-Economic and Environmental Considerations 2018 ,		2
73	A comprehensive investigation on the efficiency of alumina nanoparticles in ONAN and OFAN cooling performance enhancement of transformers. <i>Powder Technology</i> , 2021 , 387, 466-480	5.2	2
72	Evaluating the Effect of Demand Response Programs (DRPs) on Robust Optimal Sizing of Islanded Microgrids. <i>Energies</i> , 2021 , 14, 5750	3.1	2
71	A Bootstrapping Solution for Effective Interpretation of Transformer Winding Frequency Response. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022 , 71, 1-11	5.2	2
70	Social welfare maximization in ACDC power systems based on evolutionary algorithms: a new merit of HVDC links. <i>International Transactions on Electrical Energy Systems</i> , 2015 , 25, 2203-2224	2.2	1
69	Effect of electrical vehicles on long-term forecasting of energy consumption in Iran 2017 ,		1
68	DC Distribution Networks: A Solution for Integration of Distributed Generation Systems 2017 , 509-561		1
67	Test System for Detailed Model of Transformers for Transient Analysis Using the Electromagnetic Transient Program (EMTP). <i>Electric Power Components and Systems</i> , 2018 , 46, 511-520	1	1
66	Power consumption control of LEDs considering their specific characteristics and ambient temperature variations. <i>Computers and Electrical Engineering</i> , 2019 , 77, 191-204	4.3	1
65	Effect of Smart Multiple Hub Planning on Distribution Networks Integrated Expansion 2019 ,		1
64	Localization and parameter estimation of tumor by thermography 2014 ,		1
63	Home load and solar power management under real-time prices 2014 ,		1

62	Emission reduction in a micro grid including PV considering voltage profile improvement 2013 ,		1
61	Demand response of islanded residential critical loads considering PV generation uncertainty and storage capacity 2017 ,		1
60	Design of Small Hydro Generation Systems 2017 , 301-332		1
59	Application of PHEVs in controlling voltage and frequency of autonomous microgrids 2015 ,		1
58	MPPT for a three-phase grid-connected PV system (Fuzzy Logic Controller vs. PI Controller) 2015 ,		1
57	Modelling and simulation of fuel cell dynamics for electrical energy usage of Hercules airplanes. <i>Scientific World Journal, The</i> , 2014 , 2014, 593121	2.2	1
56	Combined operation of converter-based distributed generation unit in DC distribution system in order to have premium power quality. <i>European Transactions on Electrical Power</i> , 2012 , 22, 449-470		1
55	Detection of islanding conditions in distribution network with penetration of DGs based on wavelet analysis 2013 ,		1
54	Frequency control design for two-areas network connected with HVDC 2013 ,		1
53	Modelling of on-line monitoring of transformer winding radial deformation using UWB sensors 2010 ,		1
52	A novel control strategy for load converter of DC isolated distribution system under unbalanced loading conditions. <i>Journal of Zhejiang University: Science A</i> , 2009 , 10, 890-899	2.1	1
51	An approach to improve dynamic response of VSIs in off-grid Microgrids 2011 ,		1
50	A novel approach to VFTO analysis of power transformers including FVL based on Detailed Model 2009 ,		1
49	Non-linear modeling of transformer using hammerstein method 2008 ,		1
48	Application of voltage source converter in Interphase Power Controller for power flow control and fault limitation 2008 ,		1
47	Reliability comparison of fuel-cell DC-DC converter in two cases of using IPM switch and paralleling MOSFETs. <i>Power Electronics Specialist Conference (PESC), IEEE</i> , 2008 ,		1
46	A novel approach for a Z-matrix building process using Genetic Algorithm 2008 ,		1
45	Harmonic distortion minimization in multilevel converters for a wide range of modulation indexes 2007 ,		1

44	Pattern classification of internal incipient faults during impulse tests using continuous wavelet analysis. <i>Electrical Engineering</i> , 2007 , 90, 79-85	1.5	1
43	A wavelet-based energy profile approach for discrimination between fault and inrush current 2005 ,		1
42	2020 ,		1
41	Identification and classification of cross-country faults in transformers using K-NN and tree-based classifiers. <i>Electric Power Systems Research</i> , 2022 , 204, 107690	3.5	1
40	Performance Improvement of Transformer Differential Protection during Cross-Country Fault using Hyperbolic S-Transform. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 1-1	5.2	1
39	Fault-Tolerant, Distributed Control for Emerging, VSC-Based, Islanded Microgrids—An Approach Based on Simultaneous Passive Fault Detection. <i>IEEE Access</i> , 2021 , 1-1	3.5	1
38	Improving Power System Risk Evaluation Method Using Monte Carlo Simulation and Gaussian Mixture Method. <i>Advances in Electrical and Computer Engineering</i> , 2009 , 9, 38-44	1.3	1
37	Role of Joint 5G-IoT Framework for Smart Grid Interoperability Enhancement 2020 ,		1
36	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> , 2020 , 39, 4095-4109	1.6	1
35	BESS Sizing in an Isolated Microgrid Including PHEVs and RERs 2020 ,		1
34	A New Transformer FRA Test Setup for Advanced Interpretation and Winding Short-circuit Prediction 2020 ,		1
33	An Improved PSO-GA based Fuzzy Controller of STATCOM for Cascaded Induction Motors of Drilling System 2020 ,		1
32	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> , 2021 , 45, 945-957	1.9	1
31	A new control method for voltage harmonics compensation in islanded microgrid 2016 ,		1
30	Determining optimal capacity of FESS using PSO to enhance stability of microgrid after islanding mode, considering investment costs 2016 ,		1
29	Retail Electricity Pricing Impacts on Demand Response and Electrical Vehicles Planning in Residential Micro-grid 2019 ,		1
28	Modeling and Analysis of a Renewable-energy-powered Greenhouse 2019 ,		1
27	Power Exchange Control of Clusters of Multiple AC and DC Microgrids Interconnected by UIPC in Hybrid Microgrids 2019 ,		1

26	A Family of Soft-Switching DCDC Converters With Two Degrees of Freedom. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 9398-9409	8.9	1
25	Robust Cooperative Control of Isolated AC Microgrids Subject to Unreliable Communications: A Low-Gain Feedback Approach. <i>IEEE Systems Journal</i> , 2021 , 1-12	4.3	1
24	A Novel More Electric Aircraft Power System Rectifier Based on a Low-Rating Autotransformer. <i>IEEE Transactions on Transportation Electrification</i> , 2021 , 1-1	7.6	1
23	Multi-Objective Scheduling of CHP-Based Microgrids with Cooperation of Thermal and Electrical Storage Units in Restructured Environment 2018 ,		1
22	A Novel High Efficiency Interleaved Flyback Inverter for Smart Home Applications 2018 ,		1
21	A Generalized Representation of VSC-HVDC Based AC/DC Microgrids for Power Flow Studies 2018 ,		1
20	Optimal Energy Dispatch of Smart Home Equipped with PV, WT, and ESS Using Load Control under RTP 2018 ,		1
19	Improvement of Sensitivity-Based Nonlinear Solver for Bidding Strategy Problem of Electricity Markets 2018 ,		1
18	A new control method for distortions compensation and power control using microgrid connecting voltage source converters. <i>Sustainable Energy Technologies and Assessments</i> , 2021 , 47, 101373	4.7	1
17	. <i>IEEE Access</i> , 2021 , 9, 94953-94969	3.5	1
16	Impact of non-MPPT operation mode of PV system considering inverter fault current limiting 2017 ,		0
15	Microturbine Generation Power Systems 2017 , 149-219		0
14	Optimal scheduling of residential building energy system under B2G, G2B and B2B operation modes. <i>International Journal of Energy and Environmental Engineering</i> ,1	4	0
13	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> , 2021 , 31, e12811	2.2	0
12	Robust Analog DC Isolator for Cathodic Protection Applications. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2021 , 12, 04021035	1.5	0
11	Optimal sizing of microgrids 2021 , 249-312		0
10	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> , 2022 , 260, 115594	10.6	0
9	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> , 2021 , 31, e12933	2.2	

- 8 Dynamic analysis of a modular isolated bidirectional dc-dc converter for high power applications. *Turkish Journal of Electrical Engineering and Computer Sciences*, **2016**, 24, 2174-2193 0.9
- 7 Power-flow analysis of microgrids **2021**, 59-127
- 6 Microgrid protection **2021**, 191-248
- 5 Fault analysis **2021**, 129-151
- 4 Operation under unbalanced conditions **2021**, 153-189
- 3 Employing Several Kinds of Demand Response Programs to Optimal Eco Emission Planning of Microgrid. *IETE Journal of Research*,1-12 0.9
- 2 Optimal siting and sizing of electrical vehicle parking lots by considering technical constraints. *Evolutionary Intelligence*,1 1.7
- 1 Decentralized power exchange control methods among subsystems in future power network **2022**, 345-367